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COMMUNICATION

FROM THE

SECRETARY OF THE TREASURY,

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IN COMPLIANCE WITH A RESOLUTION OF THE SENATE OF MARCH 8, 1851,

THE

REPORT OF ISRAEL D. ANDREWS.

CONSUL OF THE UNITED STATES FOR CANADA AND NEW BRUNSWICK,

ON THE

TRADE AND COMMERCE

OF THE

BRITISH NORTH AMERICAN COLONIES,

AND UPON THE

TRADE OF THE GREAT LAKES AND RIVERS:

ALSO,

NOTICES OF THE INTERNAL IMPROVEMENTS IN EACH STATE, OF THE GULF OF MEXICO AND STRAITS OF FLORIDA, AND A PAPER ON THE COTTON CROP OF THE UNITED STATES.

WASHINGTON:
ROBERT ARMSTRONG, PRINTER.
1853.



SCHEDULE OF DOCUMENTS.

- General Introductory; comprising a review of the trade of the great lakes, internal commerce, and also of the trade and commerce of the North American Colonies.
 - I. The Sea-fisheries of British North America on the Bay of Fundy, along the coasts of Nova Scotia, on the Grand Bank of Newfoundland, and within the Gulf of St. Lawrence.
 - II. The Trade of the Great Lakes; accompanied by returns exhibiting the rise and progress of that trade, and its present condition and value, with a particular description of each of the lakes, in relation to its extent, resources, tributaries, outlets, and prospective commerce.

For Part III, see Appendix.

- IV. Review of the Canals and Railroads of the United States, showing their influence upon, and connexion with, the trade of the Great West; accompanied by a general map of railroads and canals, American and Colonial.
 - V. The Province of Canada, with a general description of its physical features and resources, intercolonial trade, foreign commerce, transit trade, internal traffic, and public works; accompanied and illustrated by a map of the Basin of the St. Lawrence, prepared specially for this report.
- VI. The Province of New Brunswick, with descriptions of its physical characteristics, rivers, seaports, and harbors, its forests and its fisheries, with statistical returns and observations on the free navigation of the river of St. John.
- VII. The Province of Nova Scotia, with a description of its geographical position, its most striking features and various resources; as also returns in relation to its trade, commerce, fisheries and coal mines; as also special notices of Cape Breton and Sable Island.
- VIII. The Island Colony of Newfoundland, with a description of its position between the Atlantic ocean and Gulf of St. Lawrence, its physical features and abundant fisheries, accompanied by returns of its trade and commerce; as also descriptions of the Labradore coast, and of the harbor of St. John, in connexion with the proposed establishment of a line of steamships from that port to Ireland, and connected by electric telegraph from thence to the United States.

- IX. The Colony of Prince Edward Island; its agricultural capabilities trade, commerce, and position, in relation to the fisheries of the Gulf of St. Lawrence.
- X. The Intercourse between Great Britain and her North American Colonies; accompanied by tabular statements and returns.
- XI. The Trade of some of the Atlantic ports of the United States with the North American Colonies by sea; illustrated by tables and returns, accompanied by a map of the Lower Colonies; prepared expressly for this report.
- XII. Review of the present state of the Deep-sea Fisheries of New England; prepared specially for this report by Wm. A Wellman, assistant collector of the port of Boston, under the direction of P. Greely, esq., collector of that port, with valuable statistical statements and tabular returns.
- XIII. The French Fisheries of Newfoundland, translated from official French documents, obtained in Paris purposely for this report.

APPENDIX:

Containing notices of the internal and domestic commerce—Tendency of Ohio commerce, Cincinnati, Pittsburg, Louisville, St. Louis—Steam-marine of the interior, New Orleans, Mobile, Gulf of Mexico, and Straits of Florida—Cotton crop of the United States—Commerce of the Atlantic States and cities, and tables of the tonnage of each State, during a series of years.

NOTE.

In the progress of the preparation of the report, it was found necessary to change Part III to an appendix, which contains notices of the trade and commerce of Cincinnati, Louisville, St. Louis, Pittsburg, New Orleans, the steam-marine of the interior, of the inland water-routes, the increase and value of the foreign and domestic trade, navigation, &c., &c.; as also tables showing the exports and imports of the principal Atlantic States for a series of years, and statements of the increase in the tonnage of the several States from 1836, with the per cent. increase of the total tonnage, and that of the several States.

It was conceived very desirable to publish a particular account of the inland, coasting, and foreign trade of the principal Atlantic cities, and a portion of the materials were collected for that purpose; but, for the want of correct statistical data, it was found to be impossible to

have them of a character suited to this report.

It is proper to state in this place my thanks to Mr. N. Davidson, late of the Buffalo Advertiser, for his very valuable and intelligent services in the preparation of the report, particularly in those portions relating to the trade of the lakes and the importance and value of the internal trade.

The importance of the Mississippi trade, through the Gulf of Mexico, to every portion of the Union, it is presumed will be regarded by all as a full justification for the copious notices, in the appendix, of the Gulf of Mexico and the Straits of Florida; and the value of the cotton crop to the whole country called for the extended and complete exposition in regard to it there inserted. Similar reasons—and to exonerate the report from the imputation of being sectional-demanded the notices of the commerce, railroads, &c., of the southern States and southern cities. It is believed no one will object that they were not within the strict literal terms of the resolution under which the report was prepared. The annexed map of the Gulf of Mexico and Straits of Florida, and Isthmus of Tehuantepec, furnished, as before stated, by the Coast Survey, is the first one of the kind ever published from authentic sources. It will be found interesting in illustration of the views taken in the paper contained in this report respecting this American sea, and generally with reference to other considerations. The labors of the Coast Survey are progressing in that quarter, and ere long their results will be published. This map is but an index of what they will be. Thorough and exact as the severest labor and the highest order of scientific skill can render them, their usefulness to our commerce will be unappreciable, and their benefits will extend through ages.

INTRODUCTORY.

	Page.
Introduction to report, setting forth resolution of Senate and instructions	1 2
Statistical returns in the United States behind those of other countries	
greatly enhanced. The basin of the great lakes and the St. Lawrence. Influence of emigration upon the West	3 3 3
Growth of the lake trade, illustrated by statistical statements	4 4
The great lakes, and their natural outlet to the sea. Harbors on the lakes; more extensive accommodations needed	5 6 7
The necessity of establishing marine hospitals at principal ports on the lakes Proposed canal at Sault Ste. Marie. Elements of wealth on Lake Superior.	7 7
Proposal for uniting the waters of the St. Lawrence and the Hudson by a ship canal Trade and commerce of the British North American colonies	7 12
Area and population of the colonies in 1851	13 14 15
Tonnage owned in the colonies in 1806, 1830, 1836, 1846, and 1850	15 16
of New Brunswick, Nova Scotia, Prince Edward Island, Newfoundland	16 16
Negotiations, respecting colonial trade, between the United States and Great Britain—convention of 1830	22
tables showing imports and exports of wheat, &c., in the United States, Great Britain, and the colonies	
Proposition in 1848 from Canada for reciprocal free trade in certain articles. The free navigation of the St. Lawrence and St. John. Remission of export duty on American lumber in New Brunswick.	21 35 35
Present state of the fishery question, and its threatening aspect.	35 35
Conclusion; value of colonial trade, and its importance to the United States	37
PART I.	
The Sea-fisheries of North America.	
Limits to which American citizens are confined by fishery convention of 1818 Coasts and places to which American fishing vessels principally resort Codfish caught in the Gulf of St. Lawrence Mackerel caught in the gulf The herring fishery of the gulf	39 40 40 40 41
Navigation of the St. Lawrence in connexion with a free participation in the fisheries French fisheries at Newfoundland, and new measures of the French government	42 42

PART II.

The Trade of the Lakes.

	age.
Introduction-embracing a general view of the rise and progress of the commerce of	45
the great lakes of North America	45
Subjects discussed	45 46
Relations between inland and maritime commerce	49
Extent of great lakes.	49
Value of traffic.	51
Number and tonnage of vessels	53
Dangers of lake navigation	54
Losses	55
Effect of canals on lake trade	5 7
Railroads and canals connected with lakes.	59
Growth of cities connected with lake trade	00
No. 1. Vermont district—Described, with summary statements of coasting and Canadian	60
No. 2. Champlain.—General description, with statements showing the nature, quantity,	00
no. 2. Commence.—General description, with statements showing the nature, quantity,	63
and value of the Canadian and coasting trade and tonnage of this district	
No. 3. Oswegatchie.—General description, and tables showing the nature, quantity, and value of the articles composing the Canadian and coastwise trade of this district	66
No. 4. Cape Vincent.—A general description, with tables exhibiting the Canadian trade	00
and tonnage of the district in detail.	70
No. 5. Sackett's Harbor.—A general description, with returns showing in detail the coast-	
wise and Canadian imports and exports, and the Canadian and coasting tonnage of the	
district	71
No. 6. Oswego.—General description, with several statements exhibiting in detail the	
Canadian and coasting trade and tonnage of the district	75
No. 7. Genesee.—General description, with tables illustrative of the Canadian trade and	
tonnage of the district	82
No. 8. Niagara.—General description, with tables exhibiting in detail the Canadian and	
coasting trade and tonnage	84
No. 9. Buffalo Creek.—Description, with eleven statements showing the coasting and	
foreign commerce of this district in detail and with abstracts	87
No. 10. Presque Isle.—Description, with tables showing the commerce of this district in	
detail	161
No. 11. Cuyahoga.—General description, with statements showing the imports, exports,	
and tonnage of the district in detail	165
No. 12. Sandusky.—Description, with tables giving details of Canadian and coasting trade,	
Imports and exports	175
No. 13. Miami.—General remarks, with five tables showing import and export trade, and	
tonnage	184
No. 14. Detroit—General description, with tables illustrative of the nature and value of	
the commerce of this district	191
No. 15. Mackinaw.—Description, with a table showing the quantity and value of for-	
eign imports	202
No. 16. Milwaukie.—Description, with a table showing the imports and exports of this	210
district.	210
No. 17. Chicago.—Description, with statements showing the commerce of the port and	015
district.	215
No. 18. Summary.—A description of each of the great lakes in extent, resources, tributories outlets, resources, resource	000
taries, outlets, present and prospective commerce, with a map.	223
Report on the geology, mineralogy, and topography of the lands around Lake Superior	232
General view, with eight tabular statements of the lakes:	
No. 1. Statement exhibiting the trade and tonnage, (Canadian and American,) the	
tornage enrolled, and the amount of duties collected in each of the collection dis-	
tricts on the lakes, and the aggregates of the lake commerce, for year 1851	246
No. 2. Statement showing the quantity and value of the principal articles imported	
into each collection district on the lake frontier from Canada in 1851.	249
No. 3. Statement exhibiting the quantity and value of some of the principal articles	
of domestic produce and manufacture exported from the collection districts on the	055
lake frontier to Canada during the year 1851	255
chandise exported from the collection districts on the lake frontier to Canada in	
1851	004
ANVA	260

Pag No. 5. Statement exhibiting the export trade of the custom-house districts on the	ge.
No 5 Statement arbibiting the expert trade of the experience have like the second	0
lake frontier with Canada in the year 1851, distinguishing between foreign and	
domestic produce, and showing what portion of the former was entitled to draw-	
No. 6. Statement giving a tabular view of the Canadian import trade on the lake	263
districts, and also the tonnage entering and clearing at each port, distinguishing American from Canadian, and steam from sail, in the year 1851	264
No. 7. Statement showing the produce received from Canada, and transported by the	267
No. 8. Statement showing the quantity of some of the principal articles imported and	
exported coastwise on the lakes in 1851	268

(For Part III, see Appendix.)

PART IV.

Review of the canals and railroads of the United States, showing their influence upon, and connexion with, the trade of the Great West, accompanied by a general map of railroads and canals, American and colonial.

Introductory	275
New York	277
Comparative statement showing the tolls, trade, and tonnage of the New York State	
canals, and the progress in commerce, navigation, population, and valuation of the	
four principal Atlantic cities, and the foreign commerce of the United States, from	
1820 to 1851, inclusive	280
Railroads of New York.	290
Railroads of New England	296
The Massachusetts system	297
Connecticut and Rhode Island	302
Maine	304
New Jersey	308
Pennsylvania	310
Delaware	318
Maryland	318
Virginia	323
North Carolina	327
South Carolina	328
Georgia	331
Florida	335
The system of Alabama, Mississippi, and Louisiana	335
Alabama	337
Mississippi	340
Louisiana	341
Texas	344
Arkansas	346
Tennessee	346
Kentucky.	350
Ohio	353
Indiana	362
Michigan	366
Illinois .	368
Missouri	373
Wisconsin	374
Iowa	376
Railroads in the British provinces	376
Economical view of the railroads of the United States	379
Income of our railroads	384
Mode of construction	387
Cost of railroads in the United States.	388
Tabular statement showing the number of miles of railroad in progress and in operation	500
in the United States	391
AM VALO CAMPUTE NUMBERS AND	400

PART V.

The Province of Canada.

	Page.
General position; commercial, military, and geographical position	407
Commerce of Canada; extract from Mr. Keefer's prize essay on the canals of Canada	409
Flour and wheat exported from Canada in 1850 and 1851	413
Inter-colonial trade, with statements and returns	414
The commercial norts of Canada: the Gulf of St. Lawrence	415
Sea trade of Canada: the port of Quebec: and the gross trade of Quebec and Mon-	410
treal	418 421
Ship-building; ships (and tonnage) built in 1849, 1850, and 1851	421
Trade and tonnage in 1850 and 1851	420
Summary statement of sea and inland trade	422
Value of imports from other colonies and foreign countries	422
Foreign vessels at Quebec in 1850 and 1851	423
The port of Montreal.	424
The port of Montreal. Its sea tonnage in 1850 and 1851.	425
Progressive value of imports and exports from 1849 to 1851, both inclusive	426
Trade between Montreal and lower colonies	427
Trade between Montreal and St. John and the United States.	427
Inland ports; inland trade between Canada and the United States; steam and sailing tonnage employed; and value of imports and exports	428
Trade of principal inland ports with the United States	430
Principal articles of import and export, with total value	431
Imports by way of Hudson's Bay and Lake Superior	430
Statement showing quantities and value of Canadian produce received in bond at New	
York and Boston in 1851	432
Statement of the value of goods imported at Boston and New York, and thence forwarded	400
to Canada under bond. Quantity and value of Canadian flour and wheat received at New York in 1849, 1850, and	433
1851, and thence exported	433
Export of flour and wheat from the United States to the British North American colonies	100
for the years 1846 to 1851, inclusive	434
Comparative statement of Canadian and American flour exported to the lower colonies	
from 1846 to 1851, inclusive	435
Comparative statement of the import and export trade of Canada for 1849, 1850, and	400
1851.———————————————————————————————————	436 437
Up and down trade of Welland canal, 1850 and 1851.	438
Up and down trade of St. Lawrence canals in 1850 and 1851.	439
Number of vessels, tonnage, tolls, and movement of property and passengers on Cana-	
dian canals, for 1851	440
General remarks on the Erie and Welland canals; rates of toll on heavy freight	441
Quantity of iron and wheat transported by Erie and Welland canals	441
Effect of the repeal of the navigation laws on traffic by the St. Lawrence	443
The Magdalen islands	443
TABLES.	
00 12. d Class - 1 12772 - 17	
Table 1. Statement exhibiting the number of American and foreign vessels, and also	
their tonnage, employed in the trade between the United States and Canada, which entered in and cleared from the lake ports, annually, from 1833 to 1851, inclusive	
Table 2. Comparative statement of the total movement of property on the Walley I	445
	446
1 able 3. Imports at cach port of Canada in 1001, distinguishing countries from whom we	
and route by which unported	448
Table 4. Exports from Canada in 1851, and countries to which owners 3	451
Table 5. Comparative statement of imports inland via United States, with imports by sea via St. Lawrence, in 1851.	450
Table 6. Direct imports from sea at inland ports, by St. Lawrence in 1981	453 455
Table 7. Comparative statement of imports, 1850 and 1851	456 456
Table 8. Comparative statement of exports "inland" and "by sea" in 1851	450

. F	age.
Table 9. Comparative statement of total duties at each port in Canada in 1850 and 1851 Table 10. Comparative statement of the quantity and value of the principal articles of Canadian produce and manufacture exported in 1850 and 1851, indicating countries to	460
which exported	461 477 480
1851	486
Montreal in 1850 and 1851	491
John, in the year 1851	
by the ports of Boston and New York	504 505
Table 40. Statement showing the relative amount of business done in American and Canadian vessels at the ports of Oswego, Rochester, and Buffalo, in 1850	505
Table 41. Statistical view of the commerce of Canada, exhibiting the value of imports and exports from Great Britain, the colonies and foreign countries, together with the tonnage of vessels inward and outward, in 1850	506
PART VI.	
The Province of New Brunswick.	
Geographical position; agricultural capabilities	507 508
Extent and character of river St. John. Harbor of St. John; never frozen.	508
The Petikodie; new mineral found there	508
Harbors on the gulf coast of this province: Shediac; Cocagne; Buctouche; Richibucto; Miramichi.	509
Shippagan; Little Shippagan; Bathurst	510
The bay of Chaleur; Restigouche	510
Imports and exports of New Brunswick in 1849 and 1850	511
Number and tonnage of new ships built, and number and tonnage of ships owned, in New Brunswick, in 1849 and 1850.	512
Trade of St. John; tonnage inward and imports, 1850	513
Same; tonnage outward and exports, 1850	513
The like tables for the year 1851	514
Quantity and value of American timber and lumber floated down the St. John, and exported to the United States, in 1650 and 1851	515
Quantity and value of principal articles of colonial produce and manufacture exported from St. John to the United States in 1851	516
Quantity and value of the various articles of American growth, produce or manufacture, imported into St. John in 1850	517
Detailed statement of principal articles imported at St. John from the United States in 1851	519
More coals and timber imported at St. John from the United States than exported to that country.	521
Number and tonnage of American vessels entered at St. John in 1851	521 522
New ships built at St. John in 1851.	522 522
Value of hacmatac ships; resolution of underwriters at Lloyd's	522
Number of vessels owned at St. John	
Trade of St. Andrews and outbays in 1850	523 524
Shipping built and owned at Miramichi; tonnage inward and outward in 1851 Exports from Miramichi to the United States in 1851	524 525
Trade and tonnage of Dalhousie	525
Trade and tonnage of Bathurst	525
Trade and tonnage of Richibucto	525
Trade of New Brunswick for 1851	527
Fisheries of New Brunswick in the bay of Fundy.	528
Grand Manan; Campo Bello; West Isles.	528
Harbor of St. John; Cumberland bay	528
Tutal value of those februing in 1950	FOO

	Page.
The free navigation of the St. John Length of the river; different jurisdictions	529 529 530 530 531 531 532 551
PART VII. The Province of Nova Scotia.	
Extent and physical character. Tonnage inward and outward in 1849 and 1850 Imports and exports of 1849 and 1850 compared Return of all articles the growth, produce, or manufacture of the United States, imported into Nova Scotia in 1850 Tonnage inward and outward, and value of imports and exports, in 1851 Imports and exports of 1849, 1850, and 1851, compared	553 554 555 555 556 557
Oughtity and value of principal articles of colonial produce exported to the United	001
Quantity and value of principal articles of colonial produce exported to the United States in 1851 Number and tonnage of American vessels entered at ports of Nova Scotia in 1851 Number and tonnage of vessels owned in Nova Scotia in 1851 Vessels, boats and men engaged in the fisheries in 1851 Consus returns Port of Halifax; its character and advantages Imports and exports; ships inward and outward in 1850 Quantity and value of merchandise imported at Halifax from the United States in 1850 Tonnage inward and value of imports in 1850 Tonnage inward and value of imports in 1850 The coal trade; aumber of mines Pictou coalfield Sydney coalfield Cumberland coal mines Quantities of coal exported in 1849 and 1850 Cape Breton described The Bras d'Or Great value of Cape Breton from its position and resources Exports of fish in 1847, 1848, and 1850. Ceals raised and sold in 1849 Vessels inward and outward in 1850 Imports and exports in 1850 Sable Island described	557 557 558 558 559 560 561 562 563 564 564 564 565 566 567 567 568 569 570
Its exact geographical position stated	570
Valuable fisheries in its vicinity not prosecuted	571
PART VIII.	
The Island Colony of Newfoundland.	
Description of its physical geography The coast of Labrador described The deep-sea codfishery of Newfoundland The shore fishery for cod The herring fishery Salmen, mackerel, and whale fishery	573 575 577 578 579 579
The seal fishery	580 581
last ten vears	582
Exports of Newfoundland in 1849 and 1850	582 583
Vessels inward and outward in 1850	583 584

	Page.
Comparative statement of shipping inward and outward in 1849, 1850, and 1851 Vessels built in Newfoundland in 1847, 1848, 1849, and 1850 Population; boats engaged in fishery	584 584 585 585 585
Trade between Newfoundland and the United States; quantity and value of staple products exported from Newfoundland to the United States in 1849, 1850, and 1851 Quantity and value of all articles imported into Newfoundland from the United States	586
during the year 1851, with the rate and amount of duty paid thereon	586
Vessels inward, and value of imports, in 1851	589
Vessels outward, and value of exports, in 1851	590
Value of the Labradore trade and fisheries- The port of St. John.	591 591
Proposed electric telegraph from this port	592
The harbor described.	592
Light-houses on the east coast of Newfoundland.	595
Ships inward at St. John in 1850 and 1851	596
Ships outward at St. John in 1850 and 1851	596 597
Comparative statement of exports in 1850 and 1851	598
Imports into St. John from Canada in 1850 and 1851	599
Imports from British West Indies, Spain, Portugal, Germany, Denmark, and Spanish	200
West Indies, in 1851	600 602
1849, and 1850	603
PART IX.	
The Colony of Prince Edward Island.	
Extent, position, and description of this island	605
Stock and crops of the island; new vessels built Vessels owned and registered in 1850 and 1851	607 607
Imports and exports in 1850 and 1851	607
New vessels sold at Newfoundland in 1851	607
Vessels entered and cleared in 1850	608
Vessels entered and cleared in 1851	608
Value of exports in 1851	609
and amount of duty paid thereon.	610
Quantity of articles exported to the United States in 1851	610
Abstract of trade of colony for 1851	611
PART X.	
The intercourse between Great Britain and her North American colonies.	
Value of goods exported from Great Britain to British North American colonies in 1800,	
1805, 1810, and 1815.	613
Official value of import and export trade in 1818, 1819, and 1820	614
Tonnage inward and outward in 1800, 1805, and 1815.	614
Tonnage outward and inward, to and from the British North American colonies, in 1845 and 1850	615
The timber trade in 1800, 1819, 1840, 1845, and 1850.	615
Foreign timber and deals in 1849, 1850, and 1851	617
The colonial trade a nursery for seamen	617
PART XI.	
The trade of some of the Atlantic ports of the United States with the North American cold	aniac
by sea.	vnie s
The extent of the seacoast of these colonies	619
New Brunswick and Nova Scotia, an extension of New England	620

	age.
Tonnage inward in the colonies from the United States at various periods since 1787, showing the vast increase. Trade of twenty-three Atlantic ports with New Brunswick, Nova Scotia, Newfoundland, and Prince Edward Island, in 1851—four tables Tonnage inward and outward between nine principal seaports of the United States and the lower colonies in 1851. Comparative statement of all tonnage inward and outward at the principal seaports of the United States, and of the colonies, in 1851. PART XII.	621 622 627 628
Review of the present state of the Deep-sea Fisheries of New England.	
Amount of these fisheries since 1783, and summary of legislation respecting them, by W. A. Wellman, esq	629 635
. TABLES.	
Tables Nos. 1 and 2.—Statements of the quantity and value of dry and pickled fish imported and exported from Boston to foreign countries from 1843 to 1851	
PART XIII.	
The French Fisheries of Newfoundland	
Laws as to fishing bounties in France	661 661 671
Return of vessels fitted out in France for the cod-fishery from 1842 to 1850, both years inclusive	673 674
France, from 1840 to 1850, inclusive	675
bounty paid thereon, from 1842 to 1850, inclusive Quantity of dried cod of French catch exported from warehouse in France to French	680
colonies, and bounty paid thereon, from 1842 to 1850, inclusive	681
from 1842 to 1850, inclusive, and amount of bounty thereon.	682
eign countries, from 1842 to 1850, inclusive, and amount of bounty thereon	683
tries, from 1842 to 1850, inclusive, with amount of bounty thereon. Total amount of bounties paid out of the treasury of France for the encouragement of the cod and whale fisheries, from 1829 to 1849, inclusive.	684
the ood what make homenes, from 1000 to 1040, HUMSIYE	685

APPENDIX.

J	Page.
Notice of the internal and domestic commerce of the country	687
Statements of trade and commerce, population, &c., for several years	688
Receipts into the treasury from customs and other sources	689
Statement showing the valuation, area, and population to the square mile in 1850, with	
the indebtedness of the several States in 1851	690
Valuation of real and personal estate of the inhabitants of the United States for the	
years ending June 1, 1850, and December 31, 1852	693
Comparison of property among urban and rural population	694
Table showing the amount and value of the productions of agriculture in the United	
States for the year 1852	695
Remarks upon the agricultural table	696
Statements showing the number of manufacturing establishments in the United States,	
amount of raw materials used, capital invested, &c., according to census of 1850	698
Statement exhibiting the value of domestic produce and manufacture exported annually	
from 1821 to 1852; also the value per capita	699
Statement exhibiting the value of foreign merchandise imported, re-exported, and con-	
sumed, annually, from 1821 to 1851, inclusive, and also the estimated population and	
rate of consumption, per capita, during the same period	701
Total imports consumed in the United States for several years	701
Imports and exports, and tonnage inward and outward, of the principal Atlantic States,	
for the years 1825, 1840, and 1851	703
Notes on the amount and tendency of Ohio commerce.	705
Aggregates of the receipts in leading articles of domestic produce at the lake and river	mom.
ports	707
Exports of Cincinnati for 1845 and 1850	709 710
Table of manufactures in Cincinnati for 1840 and 1850	710
Destination of principal article of export of Cincinnati	711
Specific notice of Cincinnati.	712
Statement of imports from all sources for five years	713
Statement of exports from Cincinnati for five years	715
Commercial notice of Pittsburg, Penasylvania	716
Comparative statement exhibiting exports by canal of leading articles for three seasons.	720
Comparative statement of leading articles imported to Pittsburg by canal for three years	721
Imports and exports at Pittsburg by canals for 1851	721
Commercial notice of Louisville, Kentucky	723
Its growth, population, and commerce	724
Pork business, steamboats, navigation, and manufactures	725
Railroads	726
Commercial notice of St. Louis, Missouri.	727
Comparative statement of principal articles landed at St, Louis during six years	729
Table exhibiting the number and tonnage of boats arriving at St. Louis for five years	729
Statement of foreign commerce of St. Louis	730
Steam marine of the interior	731
Steam marine of the Mississippi valley	733
Tabular statement of steamers on the rivers	734
Statements showing the movement of passengers in the interior	735
Statements of the number of boats and the amount of tonnage employed, and the direction	
at several centres of interior commerce	740
Statement of marine losses and insurance in several collection districts of the interior	741
Rise and progress of steam marine of the United States	743
Comparative statement showing the increase of steamboat tonnage on the Mississippi and	
its tributaries from 1842 to 1852.	744

1.0	ugu.
Comparative statement showing the increase of steamboat tonnage on the upper lakes. Statement of the number of steam and sail vessels lost on the lakes and rivers of the interior during the year 1851, with the cause and manner of loss, and number of persons	745
who perished thereby	747
	749
OCHOIGI GACIGNOS IOSDOCKIUS SPORIII IIIGI III OI FIIG III/GIIOI **********************************	751
Tabular view or one curite steam invited of the Childer States	752
MINITURE CIRCLES ON CHE WESTELL WOLFES IN 1000	753
	754
remains by whitem 12, iiouge, esu., on the commercial advantages of from Caronana	104
Table exhibiting the value of the principal articles imported from the interior into New	WMG
Orleans at several periods Statement showing the value of exports and imports at New Orleans, annually, from 1834	756
Statement showing the value of exports and imports at New Orleans, annually, from 1834	
to 1851, inclusive Statement of the receipts on account of duties collected at New Orleans from 1835 to	758
Statement of the receipts on account of duties collected at New Orleans from 1835 to	www.
duto ou, 1000, inclusive	759
Statement of number and tonnage of American and foreign vessels employed in foreign	
trade in the district of New Orleans, which entered and cleared annually from 1826 to	
1851, inclusive	759
Commercial notice of Mobile, Alabama	760
Statement showing the exports and destination of cotton from the port of Mobile during	
the last ten years	761
Statement of principal imports into Mobile for five years, ending August 31, 1852	762
Statement of number and tonnage of vessels employed in foreign trade in the district of	
Mobile, which entered and cleared annually from 1826 to 1851, inclusive	763
Introductory notes upon the geographical and commercial position of Florida	764
Letter from W. L. Hodge, esq., Assistant Secretary of the Treasury, relative to the	
trade of American ports of the Gulf of Mexico	767
Letter from Hon. E. C. Cabell, relative to internal improvements and general resources	
of Florida	770
	794
	805
Tables.	
Imports of cotton goods, 1852	838
Exports of foreign cotton goods, 1852	839
Exports of raw cotton, 1852	840
Exports of domestic cotton goods, 1852	840
Specification of foreign cotton goods exported from 1821 to 1852	842
Specification of domestic cotton goods exported from 1826 to 1852	843
Specification of domestic products exported from 1821 to 1852	844
Total domestic produce exported, including specie, &c., since 1821	845
Specification of foreign cotton goods imported, and total exported and consumed, from	0.20
1821 to 1852	846
Bullion and specie imported and exported since 1821	848
Statements of the commerce of the Atlantic States and cities	849
Statement of the value of exports and imports of Boston and New York from 1834 to	0.350
1851	851
Exports and imports of Philadelphia and Baltimore from 1834 to 1851	852
Dodoof Charleston	853
Duries received at Recton New York Distriction of Delicing Rector New York Distriction	854
Duties received at Boston, New York, Philadelphia, and Baltimore from 1835 to 1852.	004
Statement exhibiting the number of American and foreign vessels, and their tonnage,	
employed in foreign trade in the district of Boston, which entered and cleared from	055
1826 to 1851	855
Statement exhibiting the same in the district of New York.	856
Statement exhibiting the same in the district of Philadelphia.	857
Statement exhibiting the same in the district of Baltimore.	858
Statement exhibiting the same in the district of Portland	859
Statement exhibiting the tonnage employed in the foreign trade of the United States	860
Statement exhibiting the American and foreign tonnage entered and cleared at ports	o de
of the United States from 1842 to 1851	862
Statement of amount of tonnage belonging to the United States from 1836 to 1852	863
Statement exhibiting the number and tomage of vessels built in the United States, an-	
nually, from 1836 to 1852	866
Statement showing the national character of foreign vessels entered and cleared at ports in the United States, with their tonnage, from 1842 to 1851.	
	872

xix

F	Page.
Statement exhibiting the average tonnage of vessels built in the United States, an-	0
nually, from 1836 to 1852.	874
Exports and imports of the principal commercial States of the Union for six years	876
Statement exhibiting the value of foreign imports into the principal commercial States	880
Statement exhibiting the value of domestic exports from the principal commercial States.	881
Statement of tonnage entering and departing from the United States to foreign countries.	
for a series of years	882
Statement of tonnage entering and departing from northern and southern States for a	
series of years	884
Inland water routes, with statements of the tonnage and value of each	886
Commercial notices of Albany, Troy, and Waterford	888
Statements of trade of New York canals at tide-water	890
Statement of the trade of the Pennsylvania canals at tide-water	898
Internal trade of the United States for 1852	903

INTRODUCTORY.

Washington, August 19, 1852.

Sin: The undersigned was personally honored with your instructions on the 28th July, 1851, to report on the following resolution of the Senate of the United States:

"That the Secretary of the Treasury be requested to communicate, to the Senate, as early as possible, at the next session, full and complete statements of the trade and commerce of the British North American colonies with the United States, and other parts of the world, on land and by sea, in the years 1850 and 1851, with such information as he can procure of the trade of the great lakes."

You directed his attention to the general importance of all the subjects embraced in the resolution, their intimate relation to many branches of national interest, and the necessity of having such report submitted to you in the most correct form, and as full and detailed, as

the shortness of time would permit.

You were pleased, also, at a subsequent period, to direct the attention of the undersigned, to that part of the resolution relating to the commercial interests of the great lakes, and to desire that it should receive prompt and careful attention; and that all the information obtained should be presented in tabular statements.

The undersigned was likewise informed by you, that if any subjects not specified in his instructions, of national or great local interest, germane to the spirit of the resolution of the Senate, should fall under his notice, it would not be inappropriate to submit the same for the con-

sideration of the government.

These instructions, and the great interest now generally manifested as to the colonial and lake trade of the United States, have induced the undersigned to give careful attention to each distinctive feature of the various important subjects involved in your instructions and the

resolution of the Senate.

The undersigned is fully aware that it is his duty (as it most certainly is his wish) to notice the questions under consideration in the briefest manner consistent with their proper elucidation. In justification of any notice that may be considered too much extended, it must be remembered that the weighty matters involved are not confined to any particular locality; that they affect not only the British colonies, but various and important domestic interests of the United States; that they are interwoven with all the elements of our national strength; that they bear, in an especial manner, upon the navigation and the foreign and coasting trade of this country, upon its various manufactures, and upon its commerce with distant nations.

In directing your attention to the first part of this report, the most important so far as home interests are concerned, it is proper to remark, that although the statements as to the internal trade of the

United States are fuller than any before presented to the government in this form, and such as could only be obtained by great labor and expense, they may be relied upon as being generally correct. They have been collected from various sources, official and unofficial; and it is due to the public to state, that it is principally owing to the different modes of conducting the inland trade of the country, that statistical returns of an official character are not made as to much of that trade.

The returns from several of the custom-house districts on the lakes are very creditable to the collectors by whom they were prepared; while the returns from others were in many respects incorrect and incomplete, causing loss of time and great trouble in rectifying and

perfecting them.

The necessity for a well organized system, in order to obtain "a correct account" of the lake trade, must be obvious. The want of a law to enforce even the present imperfect system, the great increase of business, and its diversified character in nearly all the districts, and the limited clerical force allowed in some of them, are all causes of difficulty in obtaining and arranging in a creditable and satisfactory manner, full, accurate, and entirely intelligible statistics of the lake trade, and of the general internal commerce of the country.

It is proper also to state that the embarrassments now existing, will increase in a corresponding degree with the certain and almost incal-

culable annual increase of this trade and commerce.

This ill-arranged and imperfect system of managing the lake trade and internal commerce of the country is presented to the notice of the government, and offered as an apology why the report on this trade and commerce is not more worthy the high importance of the interests involved. If national considerations should induce a desire on the part of the government to possess other reports on the internal trade of the country, it will be necessary to provide for a more perfect system of statistical returns and to carry it out by legal requirements.

It is not intended to suggest that any novel coercive laws should be adopted, interfering with the free and unrestricted exchange of goods and productions of all kinds between different sections of the country. Free commerce, especially internal commerce, unfettered by restraints originating in sectional or local partialities, or prompted by like selfish interests, is no boon from any government to the people; it is unquestionably their natural right. There can be no doubt that a system might be easily devised, under the authority of the Treasury Department, which would meet every requirement and promote the interests of this trade.

In the style, character and completeness of our statistical reports, we are far behind other countries, and no authority but that of Congress

can supply this deficiency.

The public eye has ever been steadily fixed on the foreign commerce of the country as the right arm of national strength. This commerce has increased so rapidly, and the trade as well as the tariffs have been so greatly changed, that new arrangements of the old returns are demanded to enable the departmental condensations to be perfect and readily intelligible. The reports on commerce and navigation now give the total tonnage of the United States, but do not state the char-

acter or class of vessels composing the mercantile marine of a country scarcely second to any in the world. It is also necessary that more complete statements of the trade and commerce of the great cities of the Atlantic seaboard and on the Gulf should be laid before Congress annually, and these improvements in their arrangement could be made, and they might be fuller in detail than those hitherto submitted, with comprehensive statistical accounts of the coasting trade and navigation, and distinguishing between steamers and other vessels.

It is proper to remark that the present arrangement of returns of the internal and coasting trade is mostly governed by the law of 1799, when the trade was in its infancy, and commerce received rather than

created law.

In the discussions which have taken place in Congress, of late years, in relation to great public questions, such as the public lands, or the improvement of rivers and harbors, the most meagre statistical statements have been adduced in many cases, and loose hypotheses assumed in others. This is attributable to the absence of authentic official returns, and is conceived to be a justification for presuming to bring this subject to the attention of Congress in this report.

In the absence of statistical statements, published by national authority, the value of works containing statistical returns upon which reliance can be placed is greatly enhanced; and this opportunity is embraced of commending, as one source of valuable information in making this report, the publications called "Hunt's Merchants' Magazine," "De Bow's Review," the "Bankers' Magazine," and the "American

Railroad Journal," as the most valuable in this country.

The undersigned is fully aware of its having been asserted by those who have limited means of forming a correct opinion, that the value of the lake trade has been everywhere overstated. It is true that in some cases approximations, from the want of official data, are, of necessity, resorted to; but that is not the fault of those who have the matter in

charge.

The basin of the great lakes, and of the river St. Lawrence, is fully delineated on the map attached to the report on Canada. Its physical features, and the influence it must exercise on future moral developments, are without parallel and historical precedent. It is an American treasure; its value to be estimated less by what it has already accom-

plished, than by what it must achieve in its progress.

The attention of the civilized world has been directed with great interest to the constant and progressive emigration from the Old World to the New. In former times, hordes of men changed their country by means of long and toilsome journeys by land; but never until the present age have multitudes, and, in some instances, communities, been transferred from continent to continent, and from one hemisphere to the other, by such means as are now afforded in the New York packets clipper ships, and ocean steamers. These vehicles but represent the genius of an era destined in future times to be designated as the "age of enterprise and progress."

That portion of the "Great West" at the western extreme of the basin of the St. Lawrence has received a larger share than any other portion of our country of the valuable addition to our national riches

arising from the industry, intelligence, and wealth, of the hundreds of thousands of foreigners who, within a comparatively brief period, have landed upon our shores. It is, therefore, impossible to estimate the enormous and continuous accumulation of wealth, having its basis on the ample resources and natural riches of that great western region, over which the star of American empire seems now to rest.

In connexion with an unequalled increase of population in the Great West, the growth of the lake trade has been so extraordinary and so rapid, that but few persons are cognizant of its present extent and

In 1841 the gross amount of the lake trade was sixty-five millions of dollars. In 1846 it had increased to one hundred and twenty-five millions. In 1848, according to the estimate of Colonel Abert, of the topographical engineers, the value of the commerce of the lakes was one hundred and eighty-six millions. Owing to various causes, but particularly to the great influx of foreigners, and the opening of new and extensive lines of intercommunication, it has recently increased still more largely, until, in 1851, it amounted to more than three hundred millions. And these estimates do not include the value of the property constantly changing hands, nor has any notice been taken of the cost of vessels, or the profits of the passenger trade.

It is not within the scope of this report, nor is it practicable therein, to attempt a full exposition of the trade and commerce of the Mississippi, the Missouri, or the Ohio, flowing through that great valley, unsurpassed in all the elements of wealth by any region in this or the Old World. This trade and commerce is worthy of the particular and earnest attention of American statesmen. And it is here proper to state, that one great cause of the growth of the lake trade is the fact that a cheap and expeditious route from the Atlantic to the Great West is afforded by the internal communications, by railroads and canals, opening the way through the great lakes and through the Alleghanies, instead of being restricted to the rivers flowing southward.

The following facts in relation to the trade of the Erie canal are presented as confirming the above, and justifying farther and full official investigation as to the entire internal trade of the West:*

In 1835 there left the lakes by the Erie canal for tide-water, 30,823 tons of wheat and flour. In 1851 there left the same points, on the

same canal, 401,187 tons of similar articles.

In 1851 the total amount of wheat and flour which reached tidewater by the New York canals, was 457,624 tons; showing that while between the lakes and tide-water the State of New York furnished 97,729 tons, or over 75 per cent. of the whole quantity delivered, in 1851 it only furnished 56,437 tons, or about 11 per cent. of the whole

^{*} The facts hereinafter stated with respect to the trade and commerce of the Mississippi and its tributaries, and of the States and cities on their shores, and on the Gulf of Mexico, and connected with them, are important not only in regard to that specific trade and commerce, but for their relation to that of the lakes and, inland, by canal and railroad to the Atlantic seaboard. It has been found in some degree necessary to refer to the former in full elucidation of the latter. The great interests of the southwestern and southern States demand, however, a fuller and more perfect notice than the resolution calling for this report, and limiting it to other sections, will allow to be now made.

quantity, the remaining 89 per cent, having been received from the West,

and from the territory of Canada on the lakes.

The total tonnage ascending and descending on all the New York canals in 1836 was 1,310,807 tons, valued at \$67,634,343, and paying tolls amounting to \$1,614,342; while in 1851 it amounted to 3,582,733 tons, valued, ascending and descending, at \$159,981,801, paying tolls amounting to \$3,329,727.

The traffic on the Erie canal, and the principal routes from the interior to the Atlantic, has such an important relation with the whole trade of the nation, that it was conceived that this part of the report would be incomplete without a proper reference to the trade of such routes; which will be found attached to Part IV, with a reference to the commerce of some of the principal Atlantic and interior ports and comparative statements.

The great lakes are not a straight line of water, but present a zigzag course. Their surplus waters all find their way to the ocean by one great outlet, the noble St. Lawrence. Notwithstanding the opinions that may be entertained adverse to that mighty river as a channel of communication between the West and the Atlantic, it is nevertheless certain to be more used, and to increase in importance, in proportion to every material stride in the prosperity and advancement of the country bordering on the lakes.

Stretching down into New York, as if for the especial accommodation of a comparatively southern region, is Lake Erie; while extending far into the regions of the northwest, to meet the requirements of that region, Lake Superior spreads his ample waters. An examination of the map prepared by Mr. Keefer, and attached to this report, under the head of Canada, will prove that nature has provided the great lakes for all the different and distant portions of this continent, and that the St. Lawrence is their natural outlet to the sea.

There are those who maintain that the improvement of the navigation of the St. Lawrence, and the widening and deepening of the Welland and St. Lawrence canals, so as to allow vessels of a larger class than at present ingress and egress, with their cargoes to the ocean, and the extension by the British government, to the United States, of the free use of both, would cause a commercial city to grow up on the banks of that river which would successfully rival New York in European trade; but important as the results doubtless would be to the interests of the Canadas, and especially of Lower Canada, and greatly as those interests would be promoted by such measures, there is little cause for believing that such anticipations of injury to New York or to any of our Atlantic cities would be realized. Their trade would not be decreased, whilst that flowing down the new outlet would be increased. New resources would be created by the new stimulants thus given.

Although the subject of harbors has been referred to in the report which follows the lake trade, yet its great importance demands some farther notice. While the commercial connexion between the East and the West by canals, steamboats, and railroads, is increasing with such rapidity under the combined influence of enterprise and necessity, it is quite evident that provision must soon be made for adequate harbor accommodation on the lakes, to meet the necessities of their commerce,

already rivalling that on the Atlantic.

It is a remarkable fact that there are but few natural harbors on the lakes, the shores differing in that respect from the seacoasts of the United States, and of the northern colonies, which are amply provided with the finest harbors.

While the commerce of Chicago, Buffalo, Oswego, and other lake ports, is of more value than the commerce of any of the ports on the Atlantic, except New Orleans, Boston, and New York, the harbors of the lake ports, even whilst their commerce is yet in its infancy, are wholly inadequate to the number of vessels already on the lakes. The numerous disasters in consequence of the insecurity of these harbors, call loudly for the improvement of such havens as can be made secure and convenient by artificial means.

The commercial and navigating interests in that section have from the outset been sensible of the drawbacks arising from the absence of security to life and property, and have unceasingly presented their claims for the artificial improvement of their harbors to the considera-

tion of the State and Federal governments.

At a public meeting held at Milwaukie, in 1837, with reference to the improvement of harbors, it was "Resolved, That we will not desist from memorializing and petitioning Congress, and presenting our just rights and claims, until we have finally accomplished our object." The spirit of this resolution, it cannot be doubted, is the prevailing sentiment throughout the entire West, connected by its trade with the lakes.

It is not presumed, in any part of this report, to argue the question of the constitutionality of such improvements by the federal government; but it is unquestionably due to that great interest, and to the preservation of life and property, to state that a great and pressing necessity exists for the construction of harbors on the lakes by some authority, State or Federal, and by some means; and whether these should be public or private, enlightened statesmen must decide. The work should be done. If the government of the United States, sustained by the patriotic affection of the people, is restrained by the constitutional compact from doing things undeniably needed for the promotion of important national interests and the security of its citizens and their property, some other means of relief should be devised. If it does possess adequate constitutional power, it should be exercised.

The past action on this subject has paralyzed, rather than aided, many improvements. Harbors and havens, the construction of which was commenced by government, have not been completed, and are in a state of dilapidation; and while the public have waited for farther aid, many valuable lives and great amounts of property have been lost. It is extremely doubtful (even if there were sufficient local wealth, and if we could allow the expectation of that unity of action in the vicinity of the lake coast necessary to secure the construction of any one of the many harbors and havens their lake commerce now so absolutely re-

quires) whether they could be completed without Federal aid.

The undersigned begs leave to call the attention of the honorable Secretary of the Treasury to the necessity of having marine hospitals in the large commercial ports upon the lakes. The casualties of that navigation are little different from those of the sea; and while the "freshwater sailor" contributes, from his monthly wages, to the same "hospital"

money," as he who "goes down upon the great deep," equal justice demands equal expenditure for the benefit of both.

It is not enough to say that these hospitals would be beneficial; they are imperatively demanded by the mariners and the ship-owners of these "inland seas." There is every year much suffering, especially at the large towns of Buffalo, Oswego, Cleveland, Sandusky. Toledo, Detroit, Chicago, and Milwaukie, all of which have a large steam and sailing marine, and are rapidly taking rank among our leading commercial cities. At these ports a large number of sailing vessels and steamers pass the winter; the number of sailors needing relief from suffering is thus increased. Some of these sailors are now often let out on hire, by the collectors of customs, to those wanting labor. No censure is intended of those officers: such course is forced upon them by the necessities of the case, but such a state of things ought not to continue. That these seamen could be comfortably provided for at a trifling cost to the government, by the expenditure of no more than the monthly contributions received from those engaged in the lake trade, if proper hospitals were erected, cannot be doubted.

One link in the chain of communication through the great lakes is yet to be supplied. This will be effected by the construction of a ship canal around the Falls of St. Mary, which will open to the lower lakes a navigation of fully a thousand miles. Our shipping will have an uninterrupted sweep over waters, which drain more than three hundred thousand square miles of a region abounding in mineral and agricultural resources. They may be water-borne nearly half way across the continent. The inexhaustible elements of wealth on the shores of Lake Superior will then become available. These, as yet, have hardly been touched, much less appreciated. Its fisheries are exhaustless. Nature has developed its mineral treasures upon a scale as grand as its Its copper mines, the most extensive and productive in the world, furnishing single masses of the unparalleled weight of sixty tons, supply half of our consumption, from localities where, ten years since, the existence of a single vein was unknown. The iron mines near the shores of this lake surpass those of Sweden or Russia in extent, and equal them in the excellence of their material. It is predicted by acute metallurgists that its silver mines, though as yet undeveloped, will one day vie with those of Mexico.

While we behold with wonder the munificence of the gifts which Providence has showered upon this extensive region, thousands of miles in the interior from the ocean, we may also look forward with hopeful pride to achievements in art, and to commercial enterprise, commensurate in grandeur to those gifts, for their distribution throughout our country and the world. Reflection upon these bounteous gifts leads us to the conception of the means necessary to be adopted for their adequate use and enjoyment. When the Caughnawaga canal shall have been finished by the Canadian government, uniting the St. Lawrence and Lake Champlain by a ship canal, thus completing the judicious and successful improvements on the St. Lawrence, so creditable to the enterprise and national views of that government; and when a ship canal shall be constructed from Champlain, by way of Whitehall, to the Hudson river—and commercial necessities will not be satisfied with less—

when the waters of Superior thus flow into the Hudson, and the shipping of New York can touch upon the plain in which, with their branches interlocking, the Mississippi and the St. Lawrence both have their origin, it will be a stride equivalent to centuries for the nation. A boundless field of commerce, and a vast expansion of transportation, will thereby be opened, and a development of wealth, such as the world has never witnessed, afforded.

The commercial results anticipated will not alone belong to those whose labor and enterprise may primarily effect them. Commerce, external and internal, by steamships on the ocean or on the lakes, by railroads over, or canals through, the land, is the advance guard of civilization. Whenever true commerce receives any new impulse, its beneficial effects accrue not only to the country from which it springs, but to the world. Its advancement is therefore one of the highest duties not only of enlightened statesmanship, but of philanthropy.

Although this report may have been elaborated more than might seem to have been designed by the resolutions or instructions under which it has been prepared, it is believed that no apology is necessary for thus devoting a few pages to the evidences of the rising wealth of this broad empire. So complete is the dependence of one section of the country upon another—so varied are the productions furnished in the different degrees of latitude embraced within the present bounds of the confederacy, and yet so admirably are the channels for transportation supplied by nature and art, that the prosperity of each section overflows into the other. This diffusion of prosperity, produced by community of interests and sympathies, freedom of trade and mutual dependence, is a sure pledge that our political union can never be broken.

The undersigned is not without hope that the facts presented in this report may tend to promote the struggling railroad interests of the West. That section needs capital, and greater facilities for transportation; the former creating the latter. The magnificent systems of railroads in course of construction, or projected, for the transportation of various productions from the country bordering on the Mississippi, so far south as St. Louis, must become important channels of trade. The political and moral benefit of railroads, as bands of union and harmony between the different sections of this broad empire, can only be

measured by our posterity.

The securities issued the United States and on account of many of the railroads projected and in process of construction in the West, are seeking a market among the capitalists throughout the world. Ignorance of the resources of the country which will support the roads, and of the progress of the regions through which they pass, causes the depression of these stocks far below their value. The large amount of money, required to complete the works already contemplated, makes it a matter of high importance, which has not been lost sight of in this report, that such information should be given to the financial world as may remove some of the obstacles encountered by the great interests of the West, owing to ignorance of their true condition and resources which prevails in the money markets of Europe.

This ignorance is not confined to foreigners, but exists among a portion of our countrymen. The former cannot understand how railroads can be built, and made to pay, in comparatively new countries: the latter, living near the banks of great rivers, and on the Atlantic coast, where alone surplus capital, as yet, abounds, cannot appreciate the necessity existing for the constant creation of these iron lines. Commerce depends for its existence and extension upon channels afforded as its outlets. Primarily it follows what may be termed the natural routes, which are often not convenient ones.

Modern commerce has sought, and is constantly creating, at great expense, artificial channels; and this is so true of the United States, that such channels have, in a great degree, superseded the natural routes; for the reason that the direction of American internal commerce is between the agricultural, and the commercial and manufacturing districts, which are not connected by the two great outlets, the Mississippi and the St. Lawrence rivers. Produce leaving Burlington, Iowa, following its natural outlet, is landed at New Orleans; or, leaving Detroit, and following its natural course, at Quebec. By the changing influence of artificial channels, it is now easily borne to New York, Philadelphia, Boston, or Baltimore.*

These are the facts which give so great consequence to the leading artificial lines of communication, such as the Erie canal, Erie railroad, Western railroad, the Pennsylvania railroad, the Baltimore and Ohio railroad, the Mobile and Ohio railroad, the Virginia works in progress for connecting the seaboard of that State with the western States; the South Carolina railroad; the several works in Georgia, and other

roads and canals alluded to in the report.

Many portions of the country are without even natural outlets, by which to forward their products to the great leading or national routes of commerce. Their products are comparatively valueless, on account of the cost of transportation to market. The wheat and corn grown in the central portions of Kentucky, Illinois, and Missouri, will not, on the spot, command one quarter their value in New York or the other markets on the Atlantic coast.

This difference in value, between the points of production and consumption, is owing to the cost of transportation. Hence the necessity of local as well as national channels to the development of our resources, and to the further creation and wider extension of inland commerce. Efforts to construct channels of commerce suited to its wants are now engrossing the energies and capital of the whole country. We have already constructed thirteen thousand miles of railroads, and have at least thirteen thousand more in progress. Our roads completed

* From	New Orlea	ns to New York	4,290	miles.
44	66	to Philadelphia	4,054	44
44	46	to Baltimore	3,648	46
44	44	to Boston	4,898	44
44	Quebec to	Boston	2,696	44
44	" to	New York	3,304	44
66	" to	Philadelphia	3,540	66
44	" to	Baltimore	3,976	44
66	" to	New Orleans	7 504	6.6

have cost four hundred millions; those in progress will cost at least two hundred and sixty millions more—making an aggregate of six hundred and sixty millions. These roads are indispensable to keep alive and develop the industry of the country.

The cost of these roads will not be less than twenty thousand dollars per mile, requiring an annual outlay of about eighty millions for works

in progress.

The capital of the country is not equal to this demand, without creating embarrassment in the ordinary channels of business; and unless we can avail ourselves of foreign capital, a portion of our works

will be retarded, or we shall be involved in financial trouble.

We could borrow from England, Holland, and France, at comparatively low rates, the money needed for our works; and it is believed by statesmen that by a judicious extension of our commerce with other parts of Europe to which hitherto less attention has been paid than it deserves, inducements could be created for the investment of a portion of their large surplus capital in profitable works of internal improvement in this country, yielding high rates of interest, provided the foreign capitalists could be made to fully understand our condition, the necessity that exists for these works, and the prospect of their yielding a remunerating traffic. As it is, our works are mainly carried on by aid of foreign capital; but we have to pay, at times, exorbitant rates for the use of money, simply because so little is known of the objects, value, and productiveness of our works.

One course adopted by many of those who are constructing the roads in progress is to raise money upon what are called *road bonds*. These bonds are based upon the whole cost of the road, and are consequently perfectly safe investments. They are, notwithstanding, sold, on an average, as low as 85 or 87 cents on the dollar, and the capitalist is

alone benefited by the advance.

One object which the undersigned has had in view in the preparation of this report, is to diffuse information that will secure an active demand for our sound securities at the best rates, so that the public-spirited companies who are struggling under heavy burdens may receive what their securities are actually worth, and may not be compelled to heavy sacrifices. Our companies during the present year will be borrowers in the market for fifty millions, to be raised, in a great degree, on these railroad bonds. This amount will be borrowed mostly from European capitalists, at a discount of 12 to 15 per cent., making an aggregate loss of six to seven millions.

These bonds bear 7 per cent. interest. The above discount brings the rate of interest on a bond having ten years to run to about 8½ per

cent. per annum.

These bonds are sold at the above rates, because so little is known of the projects, or of the real strength of the country. The purchasers demand a premium in the nature of insurance, and as soon as it is found there is no risk they demand and receive a premium equal to a perfect security.

It is no part of this report to advocate, in any way whatever, any particular railroad, or any particular route of commerce; but in view of the unquestionable necessity that exists for more knowledge

on these points, both at home and abroad—in view of the somewhat surprising fact that we have no published documents which contain any information in reference to our public works, calculated to throw light upon the subject, the undersigned has felt it his duty to meet, as far as possible, the wants of that great interest, although the shortness of time allowed, and the difficulty of obtaining materials, has rendered the work much less perfect than he could have wished. The accompanying report on the railroads and canals of the United States, prepared with the assistance of Mr. Henry V. Poor, the editor of the American Railroad Journal, New York, with his map annexed, to which reference has been made, may, it is hoped, prove to be of value not only to the railroad interest, but to the country generally, and important at this period to American and European capitalists.

The undersigned conceives that the position of our internal commerce, as illustrated in this report, may well be a subject of national pride. For the last few centuries, the attention of the world has been given to maritime commerce, created by the discovery of America and the ocean path to the East Indies. The world entered upon a new epoch when the great maritime powers struggled for dominion on the high seas. As an eloquent American writer* has said: "Ancient navigation kept near the coasts, or was but a passage from isle to isle; commerce now se-

lects, of choice, the boundless deep.

"The three ancient continents were divided by no wide seas, and their intercourse was chiefly by land. Their voyages were like ours on Lake Erie—a continuance of internal trade. The vastness of their transactions was measured not by tonnage, but by counting caravans and camels. But now, for the wilderness, commerce substitutes the sea; for camels, merchantmen; for caravans, fleets and convoys."

Our time presents another epoch in commercial history. Internal trade resumes in this country its ancient dominion. Commerce now avails itself of lakes and rivers, as well as of the sea, and often substitutes the former for the latter. For merchantmen, it now substitutes steamboats; for fleets and convoys, canal boats and freight trains on railroads. Upon this commerce that of the sea depends. Its prosperity is the surest foundation of national power. As has been said by a philosophical historian,† "An extensive and lively commerce would most easily, and therefore the soonest, be found on the banks of large rivers running through countries rich in natural productions. Such streams facilitate the intercourse of the inhabitants; and a lively trade at home, which promotes national industry, is always the surest foundation of national wealth, and consequently of foreign trade. The course of the latter depends in a great measure upon exterior circumstances and relations, which cannot always be controlled; but internal commerce, being the sole work of the nation, only declines with the nation itself."

THE TRADE, COMMERCE, AND NAVIGATION OF THE BRITISH NORTH AMERICAN COLONIES.

In conformity with your personal directions, and pursuant to your written instructions, the undersigned has diligently prosecuted certain inquiries with reference to the British North American colonies, more especially as regards their foreign, internal, and intercolonial trade, their commerce and navigation, and their fisheries. Having procured some new and special information on these several points, of much interest to citizens of the United States, he submits the same without delay, in the briefest possible form, to the consideration of the government.

Since his appointment as consul at St. John, New Brunswick, in 1843, the undersigned has had the honor, on several occasions, of calling the attention of government to the extent, value, and importance of the trade and navigation of the British North American colonies, and of pointing out the necessity of action on the part of the general government, to meet the important commercial changes which have taken place within the last few years. He has also had the honor of suggesting the necessity of wise and liberal legislation in relation to this important and valuable trade, with the view of securing its profits and advantages to citizens of the United States, in whose immediate neighborhood it exists, and to whom, under a tair and equal system of commercial intercourse, it may be said to appertain.

In the beginning portion of this report, the undersigned has replied to one part of the resolution of the Senate in relation to the trade and commerce of the great lakes; and in the latter portion he has the honor to submit a number of documents and statistical returns in relation to the British North American colonies, made up to the latest possible moment. He most respectfully, but earnestly, solicits the attention of the government, and of the whole commercial community, to the documents and returns herewith submitted, and requests a particular examination of the separate reports on each colony respectively, and of the special reports on the British colonial and French fisheries of North America; which, at this time, will be found to possess much in-

terest.

The undersigned also invites particular attention to the sketch of the early history, and present state of our knowledge of the geology, mineralogy, and topography, of Nova Scotia and New Brunswick, prepared expressly for this report by one of our most distinguished geologists, Dr. Charles T. Jackson, who, in conjunction with Mr. Alger, of Boston, first brought to public notice the important mineral resources of these provinces.

That full confidence may be placed in the statements relating to trade and commerce of the colonies embraced in this report, it may be proper to state that each colony has been visited—the three following: Canada, Nova Scotia, and New Brunswick—several times in person by the undersigned, and that the returns have been carefully compiled not only from official documents, but from trustworthy private resources; and in this connexion the undersigned gratefully expresses his obligations

to Thomas C. Keefer, esq., Montreal, for his contributions respecting the

resources, trade, and commerce of Canada.

The possessions of Great Britain in North America, exclusive of the West India Islands, are, the united provinces of Canada East and Canada West, the province of New Brunswick, the province of Nova Scotia, which includes the island of Cape Breton, the island colonies of Newfoundland and Prince Edward Island, Labrador, and the wide-spread region (including Vancouver's Island, the most important position on the Pacific ocean) under the control of the Hudson's Bay Company, extending from Labrador to the Pacific, and from the northern bounds of Canada to the Arctic ocean, except the districts claimed by Russia.

These possessions, viewed merely with reference to their vast superficies, which exceeds four millions of geographical square miles, comprise a territory of great importance, more especially when the manifold advantages of their geographical position are taken into consideration. But their importance should be estimated less by their territorial extent than by the numerous resources they contain; their great capabilities for improvement; the increase of which their commerce is susceptible; and the extensive field they present for coloniza-

tion and settlement.

The British North American provinces, to which these reports and documents are more especially confined, occupy comparatively but a small portion of the aggregate superficies of the whole of the British possessions on this continent; yet they cover a wide extent of country, as will be perceived by the following statement of their area:

60,405,219
22,000,000
11,534,196
23,040,000
1,360,000
10.000.415
18,339,415
1,375,000
l, give the
. 0
1,842,265
193,000
277,005
101,600
62,678
2,476,548

The following table is an abstract from the late Canadian census:

Origin.	Lower Canada.	Upper Canada.	Total.
Natives of England and Wales Scotland Ireland Canada, French origin " not of French origin United States Nova Scotia and Prince Edward New Brunswick Newfoundland West Indies East Indies Germany and Holland France and Belgium Italy and Greece Spain and Portugal	11, 230 14, 565 51, 499 669, 528 125, 580 12, 482 474 480 51 47 4 159 359 28	82, 699 75, 811 176, 267 26, 417 526, 993 43, 732 3, 785 2, 634 79 345 106 9, 957 1, 007	93, 929 90, 376 227, 766 795, 945 651, 673 56, 214 4, 259 3, 114 130 392 110 10, 116 1, 366 43 75
Sweden and Norway Russia, Poland, and Prussia Switzerland Austria and Hungary. Guernsey Jersey and other British Islands. Other places Born at sea Birth-place not known. Total population.	38 2 118 293 830 10 2,446	29 188 209 11 24 131 1,351 168 889	41 196 247 13 142 424 2, 181 178 3, 335

Taking the average ratio of increase of these colonies collectively, it has been found that they double their population every sixteen or eighteen years; yet, various causes have contributed to render the increase smaller in the last twenty-one years, than at former periods.

But the commercial freedom which Great Britain has recently conceded to her dominions, both at home and abroad, has caused these North American colonies to take a new start in the race of nations, and, in all probability, their population will increase more rapidly hereafter than at any previous period.

The swelling tide of population in these valuable possessions of the crown of England, great as has been its constant and wonderful increase, will scarcely excite so much surprise as a consideration of the astonishing growth of their trade, commerce, and navigation within a comparatively brief and recent period.

In 1806, the value of all the exports from the whole of the British North American colonies was but \$7,287,940.

During the next quarter of a century, after 1806, these exports were more than doubled in value, for in 1831 they amounted to \$16,523,510.

In the twenty years which have elapsed since 1831, the exports have not merely doubled, but have reached an increase of 116 per cent. During the year 1851 the exports of the British North American colonies amounted to no less than \$35,720,000.

Equal with this constant increase in the value of exports, has been the increase of shipping and navigation.

The tonnage outward, by sea, from all the ports of these colonies, in

1806, was but 124,247 tons.

In 1831 the tonnage outward by sea amounted to 836,668 tons, exhibiting an increase of 67 per cent. in the quarter of a century which had then elapsed.

So large an increase as this could not be expected to be maintained; yet the increase, which has taken place during the twenty years since elapsed, has been nearly as remarkable. In 1851, the tonnage outward by sea from the North American colonies amounted to

1,583,104 tons, or nearly double what it was in the year 1831.

At an early period after their first settlement, the inhabitants of the North American colonies directed their attention to ship building. The countries they occupy furnish timber of great excellence for this purpose, and are rossessed of unrivalled facilities for the construction and launching of ships. This branch of business has steadily increased, until it has attained a prominent position as principally employing colonial materials wrought up by colonial industry. At first the colonists only constructed such vessels as they required for their own coasting and foreign trade, and for the prosecution of their unequalled fisheries; but of late years they have been somewhat extensively engaged in the construction of ships of large size, for sale in the United Kingdoms. New ships may therefore be classed among the exports of the British North American colonies to the parent State.

The new ships built in these colonies in 1832 amounted, in the aggregate, to 33,778 tons. In 1841 the new vessels were more than three times as many as in 1832, and numbered 104,087 tons. In 1849 the tonnage of new ships increased to 108,038 tons. In 1850 there was a still farther increase, the new ships built in that year numbering

112,787 tons.

That the colonies have great capacity for the profitable employment of shipping, is demonstrated by the steady increase of their mercantile marine. From those periods in their early history, when each colony owned but one coaster, their vessels, year by year, without a decrease at any period, and without a single pause or check, have regularly swelled in numbers and in tonnage, up to the present moment, when their aggregate exceeds half a million of tons, now owned and registered in the colonies, and fully employed in their trade and business.

The rate of this steady and continual increase of the tonnage of the colonies may be gathered from the following statement of the tonnage owned by the colonies at various periods, since the commencement or

the present century.

Aggregate tonnage of the provinces of Canada, New Brunswick, Nova Scotia, Newfoundland, and Prince Edward Island, at various

periods since 1800:

	Tons.
1806	71,943
1830	176,040
1836	
1846	399,204
1850	446,935

The commerce of the colonies may be said to have had its beginning within the past century. Without entering upon details of its rise and extraordinary progress, which can be clearly traced in the documents attached to this report, and to the report which I had the honor of submitting to you in 1850, it will be of great interest to notice its present extent and importance.

The tonnage entered inward by sea, at the several ports of the North American colonies, amounted in 1851 to an aggregate of 1,570,663 tons.

The tonnage cleared outward in that year from the same ports

amounted to 1,583,104 tons.

Commensurate with this large amount of tonnage, employed in a commerce which may be said to have had its beginning since 1783, has been the extent of colonial trade during the year just past.

The value of this trade is exhibited in the condensed statements

which follow.

The total exports of Canada for 1851, made up, from United States and Canadian returns, for this report, give a different, but a more correct result, as will be seen by the following statements:

,	
The total exports from Canada for 1851, as per returns	\$13,262,376
Of which Quebec exported\$5,622,388	
" Montreal. 2,503,916	
" Inland ports 5,136,072	
	13,262,376
Exported to Great Britain	
" United States 4,939,300	
" British North American colonies. 1,060,544	
" Other countries 826,688	
	13,262,376

The character of the above, and the comparative value of the chief material interests of the colony, may be seen by the following table:

Mines	\$86,752
Sea	249,296
Forest	6,063,512
Agricultural	817,496
Vegetable food	3,766,396
Other agricultural products.	38,028
Manufactures	55,124
Unenumerated	2,115,772

13,262,376

Imports into Canada by river St. Lawrence, giving only the principal articles and values, for the year 1851.

Articles.	Values.
Tea	\$168,084
Tobacco	18,924
Cotton manufactures	3,018,332
Woollen manufactures	2,301,816
Hardware manufactures	1,627,208
Wooden ware	11,612
Machinery	6,852
Boots and shoes	6,868
Manufactures of leather	53,156
Hides	1,164
Tanned leather	46,440
Oil, not palm	135,708
Paper	65,228
Rice	12,396
Sugar	712,408
Molasses	60,968
Salt	25,980
Glass	78,260
Coal	101,176
Furs	90,032
Manufactures of silk	407,492
Manufactures of India rubber	233,324
Dye stuffs	38,916
Coffee	13,632
Fruit	54,304
Fish	71,260
Unenumerated	5,855,776
•	15,217,316

This includes the imports in transit for the United States, and those under bond for Upper Canada.

Exports from Canada to other countries, (principally Great Britain,) giving the principal articles and values, for the year 1851.

Articles.	Values.
Apples	\$2,404
Ashes, pot	86,900
Ashes, pearl	37,372
Ash timber	14,900
Barley	408
Battens	1,960
Beef	5,268
Birch timber	18,468
Biscuit	4,376
Butter	26,596
Deal pine and spruce	937,480
Elm timber	196,124
Flour	570,876
Handspikes	900
Lard	2,256
Lath-wood and fire-wood	32,080
Masts	67,100
Meal, corn and oat	9,976
Oak timber	189,308
Oars	4,536
Oats	2,276
Peas and beans	8,960
Pine timber, red and white	1,974,760
Pork	30,424
Shingles	260
Spars	44,640
Staves.	382,136
Tamarac wood and sleepers	6,096
Furs and skins	12,208
Total from Quebec.	4,671,048
value of similar articles from Montreal	2,060,156
Unenumerated from other ports	1,401,212
Total exports by the St. Lawrence.	8,132,416

As nearly as can be ascertained, the following statements exhibit the natural products, domestic manufactures, and foreign goods imported into the colonies from the United States for 1851.

	Natural products.	Domestic manufactures.	Foreign goods, &c.
Canada	\$2,024,188	\$3,471,685	\$2,712,675
New Brunswick	869,683	335,515	325,702
Newfoundland	803,946	115,397	34,923
Nova Scotia	817,361	415,943	157,160
Prince Edward Island	77,858		1

Aggregate of colonial imports from Great Britain, United States, and other countries, for the year 1851.

	Great Britain.	United States.	Other countries.
Canada	\$12,876,828	\$8,936,236	\$1,447,376
Nova Scotia	2,133,035	1,390,965	2,003,640
New Brunswick*		1,654,175	954,935
Newfoundland	1,600,750	998,735	1,655,695
Prince Edward Island	279,898	41,603	305,974
Total	18,878,706	12,678,279	6,191,405

Aggregate of colonial exports to Great Britain, United States, and other countries, for the year 1851.

	Great Britain.	United States.	Other countries.
Canada :	\$6,731,204	\$4,939,280	\$1,035,538
Nova Scotia	142,245 $2,909,790$	736,425 $415,140$	2,663,640 535,190
Newfoundland	2,162,755	99,970	2,538,680
Prince Edward Island	84,966	55,385	184,638
Total	11,568,925	6,218,060	6,877,831

^{*} New Brunswick returns for 1851 show an increase in exports of about 15 per cent., and of 19 per cent. In the imports, greater than in any other colony.

S. Doc. 112.

COLONIAL TRADE IN 1851.

CANADA.

Imports—sea	\$24,006, 02 8
Exports—sea \$8,081,840 inland 13,259,888	35,347,756
Add for value of new ships built at Quebec, and sent to England for sale, \$1,000,000; and a farther large sum for under valuation of exports—making in the whole	\$40,000,000
NEW BRUNSWICK.	
Imports	
8,632,545	
New ships, 45,000 tonsin all	10,000.000
NOVA SCOTIA.	
Imports	
9,069,950in all	10,000,000
NEWFOUNDLAND.	
Imports	
8,886,167in all	9,000,000
PRINCE EDWARD ISLAND.	
Imports	
990,940in all	1,200,000
New shipping, 15,000 tons.	
Grand total	70,200,000

^{*} This amount includes goods in transitu.

[†] By United States returns, \$4,928,888.

Although it appears by this statement, that, as in most new countries, the amount of imports greatly exceeds the estimated value of the exports, yet it must be taken into account that the apparent balance of trade against the colonies is fully overcome by the low price at which their exports are valued at the places of shipment, as compared with the prices obtained abroad; the value of new ships sold in England; the freights earned by these ships, while on their way to a market; and the large freights earned by colonial ships in transporting the bulky products of the colonies to foreign countries; all of which profits, sales, and earnings accrue to the colonial merchant, and render the trade of the colonies, at the present time, healthy and prosperous.

After presenting the preceding statements, the undersigned does not deem it necessary to discuss in an elaborate manner the many interesting questions which they will, on examination, unquestionably present to the statesmen of England and America; more especially as the question of reciprocal free trade between the United States and the British North American Colonies is now before Congress, and received especial attention in a previous report of the undersigned submitted to yourself, and printed as Executive Document No. 23,

31st Congress, 2d session.

From 1794 to 1830 the trade of the colonies was a subject of much negotiation between the two governments, and was always considered by John Quincy Adams as one of great consequence to the United States. This protracted and almost useless negotiation produced no other results than a contraction of the trade of the colonies and an

estrangement between the people of both countries.

It is well known to the Department of the Treasury that Mr. McLane's arrangements with England in 1830, in relation to this trade, were most unsatisfactory to the commercial community, and called forth from that interest urgent remonstrances against their partial character. Time has, however, proved their beneficial operation upon the general interests of the American and colonial trade, thus furnishing another proof that profitable commerce can only exist in

perfect freedom.

Although the convention of 1830, upon the whole, had a beneficial influence, yet it still left the trade of the United States with the colonies subject to many onerous and unnecessary restrictions, which have had a very injurious effect upon it. Until near the year 1840, that trade did not rapidly increase; but then it suddenly expanded. From that period to the present time there has been a constant increase, but by no means to the extent which would have unquestionably taken place if the trade had been wholly unfettered, and allowed to flow freely in its natural course.

It is somewhat singular that, notwithstanding the geographical position of these colonies with reference to the United States, and the national importance of the various relations with them, no change has taken place in the policy of this country toward them for nearly a quarter of a century (while so much that is wise and great has been accomplished during the same period for the benefit of commerce in this and other countries) except the drawback law of 1846, which has increased the export of foreign goods from \$1,363,767 in 1846 to 2,954,536

in 1851. For many years after the Revolution, under a wise and sagacious policy, the colonial trade received a very considerable share of attention, and efforts were made to place it on an equitable, if not a liberal basis; but it unfortunately became involved with questions embracing the whole foreign policy of the country, which prevented the adoption

of permanent measures of a liberal character.

Soon after the imperial act of 1846, which had such a disastrous effect upon colonial trade, delegates were sent from Canada to this country to arrange the terms of a reciprocal free trade in certain specified articles. The proposition was favorably received by Mr. Polk's administration, and was ably supported in Congress by leading gentlemen of both parties. A bill was introduced in 1848 for reciprocal free trade with Canada in certain articles, which passed the House of Representatives, and would probably have passed the Senate, but for the great pressure of other important matters.

This bill of 1848 was considered by a portion of the people of the United States as strictly a colonial measure, for the benefit of the colonists only: especially, it was supposed that it might prove prejudicial to the agricultural interests of this country, as Canada for a few years has been an exporter of wheat to a small extent; but the subject having since been discussed, it has exhibited itself in a new light, and is now considered by many as one of equal interest to the United States

and to the colonies.

The agriculture of a country is well considered as its most valuable interest. It was natural, therefore, that the first question, raised as to the policy of reciprocal trade, should have related to the effects of free Canadian consumption upon our agricultural interests. The accompanying tables, showing the total production of wheat, rye, and corn, in the United States, for the year 1850, with the quantity of agricultural produce in Canada, show that nothing is to be feared from Canadian consumption.

Agricultural Abstract—Upper and Lower Canada, 1851.

Lands, produce, live stock, and domestic manufactures.	Lower Canada.	Upper Canada.	Total.
Number of persons occupying lands Of whom those held 10 acres and under 10 to 20 20 to 50 50 to 100 100 to 200 Over 200	94, 449 13, 261 2, 701 17, 409 37, 885 18, 608 4, 685	99, 860 9, 976 1, 889 18, 467 48, 027 18, 421 3, 080	194, 309 23, 237 4, 590 35, 876 85, 912 37, 029 7, 765
Number of acres held by the above " " under cultivation	8, 113, 915	9,823,233	17, 937, 148
" " erops in 1851	3, 605, 517 2, 072, 953	3, 697, 724 2, 274, 586	7, 303, 241 4, 347, 539
" " pasture	1,502,355	1, 367, 649	2,870,004
" " gardens and orchards	30, 209	55, 489	85,698
" wild or under wood	4, 508, 398	6, 125, 509	10, 633, 907
" under wheat	427, 111	782, 115	1, 209, 226

S. Doc. 112.

Agricultural Abstract—Continued.

Lands, p	roduce, l	ive stock, and domestic manu- factures.	Lower Canada.	Upper Canada.	Total.
Number of	acres u	nder barley	42, 927	29, 916	72, 843
66	44	" rye	46,007	38, 968	84,975
44	66	" peas	165, 192	192, 109	357, 301
66	44	" oats	590, 422	421, 684	1, 012, 106
46	46	" buckwheat	51,781	44, 265	96,046
44	44	" maize	22,669	70, 571	93, 240
**	"	" potatoes	73, 244	77,672	150, 916
44	44	" turnips	3,897	17, 135	21, 032
"	44	" other crops, fallow and idle.	649,703	600, 151	1, 249, 854
Produce in	n bushels	-Wheat	3,075,868	12, 692, 852	15, 768, 720
66	46	Barley	668, 626	625, 875	1, 294, 501
44	66	Rye	341, 443	479,651	821, 094
44	46	Peas	1, 182, 190	2,873,394	4, 055, 584
66	66	Oats	8, 967, 594	11, 193, 844	20, 161, 438
46	44	Buckwheat	530, 417	639, 384	1, 169, 801
44	44	Maize	400, 287	1,606,513	2,096,800
46	44	Potatoes	4, 456, 111	4, 987, 475	9, 443, 586
44	44	Turnips	369, 909	3, 644, 942	4,014,851
44	44	Clover and grass seeds	18, 921	42, 460	61, 381
66	66	Carrots	82, 344	174, 895	257, 239
	44	Mangel wurtzel	103, 999	54, 226	168, 225
23	66	Beans	23,602	18, 109	41,711
66	lbs.	Hops	111, 158	113, 064	224, 225
44	tons	Hay	965, 653	681, 682	1,647,33
66	lbs.	Flax or hemp	1,867,016	50,650	1,917,666
66	44	Tobacco	488, 652	764, 476	1, 253, 128
44	44	Wool	1, 430, 976	2, 699, 764	4, 130, 740
44	44	Maple sugar	6, 190, 694	3, 581, 505	9,772,199
44	galls.	Cider	53, 327	701, 612	754, 939
66	vards	Fulled cloth	780, 891	527, 466	1, 308, 353
46	""	Linen	889, 523	14, 955	904, 478
44	46	Flannel	860, 850	1, 169, 301	2,030,15
Live Stock	k—Bulls	oxen, and steers	111,819	193, 982	305, 80
		cows	294, 514	296, 924	591, 43
		es and heifers	180, 317	254, 988	435, 30
		es	236, 077	203, 300	439, 37
		9	629, 827	968, 022	1,597,84
			256, 219	569, 237	825, 45
Pounds of			9, 637, 152	15, 976, 315	25, 613, 46
"			511,014	2, 226, 776	2,737,79
Barrels of			68,747	817,746	886, 49
44	_		223, 870	528, 129	751, 99

The grain crops in Lower Canada are all taken in the minot and not in the bushel, excepting the townships.

Beef and pork are very incorrectly given in both parts of the province.

The fish in Lower Canada is exclusive of the Gaspè and Bonaventure fisheries, of which there is a separate report.

W. C. CROFTON, Secretary Board of Registration.

S. Doc. 112.

Abstract of the cereal produce of the United States in 1851.

State.	Wheat, bushels of.	Rye, bushels of.	Indian corn, bushels of.
Maine	296,259	102,916	1,750,056
New Hampshire	185,658	183,117	1,573,670
Vermont	535,955	176,233	2,032,396
Massachusetts	31,211	481,021	2,345,490
Rhode Island	49	26,409	539,201
Connecticut	41,762	600,893	1,935,043
New York	13,121,498	4,148,182	17,858,400
New Jersey	1,601,190	1,255,578	8,759,704
Pennsylvania	15,367,691	4,805,160	19,835,214
Delaware	482,511	8,066	3,145,542
Maryland	4,494,680	226,014	11,104,631
District of Columbia.	17,370	5,509	65,230
Virginia	11,232,616	458,930	35,254,319
North Carolina	2,130,102	229,563	27,941,051
South Carolina	1,066,277	43,790	16,271,454
Georgia	1,088,534	53,750	30,080,099
Florida	1,027	1,152	1,996,809
Alabama	294,044	17,261	28,754,048
Mississippi	137,990	9,606	22,446,552
Louisiana	417	475	10,266,373
Texas	41,689	3,108	5,926,611
Arkansas	199,639	8,047	8,893,939
Tennessee	1,619,381	89,163	52,276,223
Kentucky	2,140,822	415,073	58,675,591
Ohio	14,487,351	425,718	59,078,695
Michigan	4,925,889	105,871	5,641,420
Indiana	6,214,458	78,792	52,964,363
Illinois	9,414,575	83,364	57,646,984
Missouri	2,981,652	44,268	36,214,537
Iowa	1,530,581	19,916	8,656,799
Wisconsin	4,286,131	81,253	1,988,979
California	17,328	-	12,236
TERRITORIES.			
Minnesota	1,401	125	16,725
Oregon	211,943	106	2,918
Utah	107,702	210	9,899
New Mexico	196,516	_	365,411
•	100,503,899	14,188,639	592,326,612

Wheat,	average	price per bus	hel			80 ce	ents.
Rye,	do	do				5 0	66
Corn,	do	do	••••			45	66
Total.—	Rye,	100,503,899 14,188,639 592,326,612	" -		•	0,403 7,094 6,546	,319
		ntity and valu llowing table		above, expo	rted to all	count	ries,

Flour	1,026,725 bushels	10,524,331 1,762,549 622,866
_	Total	14,456,236

It is gratifying to notice that the agricultural interests of the United States are increasing in a ratio proportionate to its other material interests, and that we are now exporters and not importers of agricultural produce. It is affirmed that the prices of grain in Mark Lane control the prices of grain in our exporting markets. The following table is therefore subjoined to show the quantity of grain imported into England, our principal market in Europe, from the United States and other foreign countries.

20	6	
1849 and 1850, respectively, of the number of quarters of wheat, barley, and oats, and of the number of	flour, imported into England, Ireland, and Scotland, severally, from the United States of America, from , and from all other parts of Europe, distinguishing the quantity of those articles sent from each country	(3)
1849	ur, im	the n
	of flor ince, o	tating
the y	rrels n	also st
t for	rď ba , fron	ely;
in account for the years	sucks and barrels of flo Canada, from France,	respectively; also
n	S 0	7

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		Aggregate of importation from all parts.	quarters. 2,818,161 483,710 543,507	3,845,378	cwt. 2,632,560 498,947 218,332	3,349,839
		All other parts.	quarters. 95,650 21,532 42,969	159,551	cwt. 16,638 1,449	18,093
1849,	Quantities imported from-	All parts of Eu- rope except France, in- cluding the Asiatic parts of Turkey.	quarters. 2,251,101 445,050 419,906	3,116,057	cwt. 91,408 6,846 1,534	99,788
Year 1849,	Quantities in	France.	quarters. 362,091 10,705 78,535	451,331	cwt. 759,455 133,311 113,492	1,006,258
		Canada.	quarters. 6,747 3,551	10,298	cwt. 258,326 192,512 5,755	456,593
-		The U. States of America.	4 quarters. 103,172 2,872 2,097	108,141	cwt. 1,506,733 164,829 97,545	1,769,107
		Articles, &c.	Into England	the United Kingdom	Into England	the United Kingdom
		Ан	eat imported		eat flour (actual weight)	

Wheat flour, reduced to its equivalent in quarters of wheat, innorted	Into	England. Scotland Ireland.	quarters. 430,495 47,094 27,870	quarters. 73,808 55,003 1,644	quarters. 216,987 38,089 32,426	guarters. 26,117 1,956 438	quarters. 4,754 414 2	quarters. 752,161 , 142,556 62,380
)	_	the United Kingdom	505,459	130,455	287,502	28,511	5,170	280'296
Aggregate of wheat and wheat flour imported	Into	England	533,667 49,966 29,967	80,555 58,554 1,644	579,078 48,794 110,961	2,277,218 447,006 420,344	99,804 21,946 42,971	3,570,322 626,266 605,887
		the United Kingdom	613,600	140,753	738,833	3,144,568	164,731	4,802,475
Barley imported	Into	Into England			82,513	991,697 234,368 64,780	3,596	1,077,806 234,368 68,834
		the United Kingdom			86,567	1,290,845	3,596	1,381,008
Oats imported	Into	Into England Scotland Ireland	1	1	1,142	1,181,409 74,376 9,791	192	1,182,743 74,376 9,988
		the United Kingdom			1,332	1,265,576	199	1,267,107

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				Year	Year 1850.		
				Quantities ir	Quantities imported from—		
Ar	Articles, &c.	The U. States of America.	Свпваа.	France.	All parts of Europe except France, in- cluding the Asigtic parts of Turkey.		All other parts. Aggregate of importation from all parts.
Vheat imported	Into England	quarters. 98,751 1,948	quarters. 6,045 2,729	quarters. 465,603 21,642 108,110	quarters. 1,748,661 440,591 565,766	quarters. 172,795 28,232 78,122	quarters. 2,491,855. 495,142 751,998
	the United Kingdom	100,699	8,774	595,355	2,755,018	279,149	3,738,995
Vheat flour (actual weight)	Into England Scotland Ireland	cwt. 1,397,797 116,992 12,369	cwt. 121,012 121,341 2,939	cwt. 1,524,512 201,889 198,774	cwt. 97,960 10,061 4,608	cwt. 8,379 784 23	cwt. 3,149,660 451,067 218,713
	the United Kingdom	1,527,158	245,292	1,925,175	112,629	9,186	3,819,440
Wheat flour, reduced to its equivalent in quarters of wheat immortal	Into England	quarters. 399,371 33,426 3,534	quarters. 34,574 34,669 840	quarters. 435,575 57,682 56,793	quarters. 27,989 2,875 1,316	quarters. 2,394 224 6	quarters. 899,903 128,876 62,489
Total Introduction	the United Kingdom	436,331	70,083	550,050	32,180	2,624	1,091,268

3,391,758 624,018 814,487	4,830,263	788,593 191,107 56,203	1,035,903	1,047,913 91,886 14,674	1,154,473
175,189 28,456 78,128	281,773	10,515	12,172	99	99
1,776,650 443,466 567,082	2,787,198	746,849 191,054 52,835	990,738	1,044,927 91,881 14,673	1,151,481
901,178 79,324 164,903	1,145,405	31,229 53 1,711	32,993	2,920 5 1	2,926
40,619 37,398 840	78,857				
498,122 35,374 3,534	537,030				
Into England	the United Kingdom	Into England Scotland Ireland	the United Kingdom	Into England Scotland Ireland	the United Kingdom
Aggregate of wheat and wheat flour imported		Barley imported		Oats imported	

Ogdensburgh.....

Lake Champlain.....

Total exported inland to the United States.

*Montreal and Quebec.

Total exported.....

Abstract consumption of foreign grain for four years, from 1847 to 1850.

Wheat	Quantity in quart 14,238,313 25,031,823	3 at 51s. 9d.	stlg\$18	Value. 4,208,170 7,123,110
Totals		_		
Yearly average	9,817,53	<u>-</u> 4	9	5,332,820
Abstract of grain	imported for j	five years, fro	n 1846 to 18	50.
WheatOther grains	Quantity in quart 16,452,556 27,485,078	5 at 52s. ½d.	stlg\$21	Value. .0,769,750 .5,251,885
Totals	. 44,067,53	- 3	43	6,021,635
Yearly average.	8,813,520	- 3	8	37,204,375
Table exhibiting the flows	and wheat 1—year end	exported from	n Canada in l.	n 1850 and
•	18	50.	185	1.
Exported to and through-	Flour, barrels.	Wheat, bushels.	Flour, barrels.	Wheat, bush.
Buffalo	19,2 44 260,87 2	66,001 1,094,444	10,860 259,875	101,655 670,202

32,999

90,988

404,103

280,618

684,721

Decrease in inland export to the United States.

Increase in sea export from Canada.....

192,918

1,353,363

1,441,828

88,465

30,609

11,940

313,284

371,610

684,894

90,819

90,992

18,195

790,678

161,312

951,990

562,695

72,847

626

^{*} Exported by sea via Montreal and Quebec.

Total quantity imported into the United States from Canada,* for the year ending June 30, 1852.

Wheat, bushels	1,008,928
Of the above, there was exported to England, viz:	1,802,179
Wheat, bushels	
To the British North American colonies other than Canada, viz:	1,379,283
Wheat, bushels	370,027
Total	1,749,310
Total domestic flour, &c., exported from the United States to the Br American colonies.	ritish North
	itish North
American colonies.	\$150,288 191,750 39,158
### American colonies. TO CANADA. Wheat	\$150,288 191,750 39,158
### American colonies. TO CANADA. Wheat	\$150,288 191,750 39,158 6,911 388,107
American colonies. TO CANADA. Wheat 208,130 bushels value, Flour 51,176 barrels Corn 88,306 bushels Othergrain	\$150,288 191,750 39,158 6,911 388,107 DA. \$220,319 945,387 66,199 173,537

It will be easily seen by these tables that the whole of the Canadian wheat, &c., imported in bond, is re-exported to England and the colonies; and also, in addition, that the export to Canada and the colonies, for their consumption, is nearly two millions of breadstuffs the produce of the United States.

The upper province, generally known as Canada West, has a greater interest in a free intercourse with the United States than Lower Canada

or Canada East. The origin, language, and other distinctive features of the inhabitants of Lower Canada, make their affinities with the United States much less than those of the Upper Canadians. Moreover, the geographical position of Upper Canada makes New York a more convenient, while it is at the same time a larger and more secure, market for her produce, than Montreal or Quebec. The various lines of railway, leading from the Atlantic to the lakes, give to the inhabitants of the upper province facilities of communication with New York, during a part of the year when access to Quebec is extremely difficult.

The canal tolls levied by the State of New York on Canadian produce passing through her canals toward tide-water amounted, in 1850 and 1851, to over \$1,000,000; and property from tide-water to Canada, through the same channels, probably pays half as much more, making, at the least, \$300,000 annually contributed by the Canadian trade to

the New York canals.

Imports into Canada from the United States, giving the principal articles and values, for the year 1851.

Articles.	Values.
Tea	\$893,216
Tobacco	403,860
Cotton manufactures	565,124
Woollen manufactures	439,260
Hardware manufactures	318,844
Wooden ware	53,724
Machinery	85,768
Boots and shoes	42,592
Manufactures of leather	47,388
Hides	89,204
Tanned leather	126,232
Oil, not palm	47,804
Paper	32,996
Rice	19,920
Sugar	278,468
Molasses	19,296
Salt	79,816
Glass	18,828
Coal	38,652
Furs	44,264
Manufactures of silk	80,768
Manufactures of india rubber	53,960
Dye stuffs	12,680
Coffee	116,988
Fruit	81,144
Fish	17,544
Unenumerated	4,780,37
	8,788,712

Exports from Canada to the United States, giving the principal articles and values, for the year 1851.

. Articles.	Values
Ashes.	\$65,992
Lumber	766,628
Shingles	20,732
Cattle of all kinds and sizes.	
Horses.	185,848
Wool	41,896
Wheat	491,760
Flour	1,181,484
Barley and rye.	
Beans and peas.	41,588
Oats*	135,708
Butter	38,004
Eggs	38,008
Unenumerated	1,705,664
	4,929,084

dutiable and free goods are thus stated for the year 1851:

Dutiable imports into Canada from the United States	\$7,971,380
Free imports into Canada from the United States	1,147,388

*9,118,768

Amount of duties collected on \$7,971,380, is \$1,166,144, or about 144 per cent.

The active character of the inland trade between Canada and the United States may be seen by the following statement of the tonnage inward and outward:

	inward.		OUTWARD.		TOTALS.	
,	American.	British.	American.	British.	Inward.	Outward.
Steam	1, 224, 523 139, 867	845, 589 202, 039	753, 318 153, 670	564, 089 206, 361	2, 070, 112 ,341, 906	1, 317, 407 360, 031
Total	1, 364, 390	1, 047, 628	906, 988	770, 450	2, 412, 028	1, 677, 438

^{*} The discrepancy between this and other amounts is explained in a note in table No. 9.

Inward and outward.

Steam—American \$1 British. 1	1,409,678	\$3,38 7,519
Sail—AmericanBritish.	293,537	
		701,937
Grand total, inward and outward		4,089,456

The total amount imported from Canada into the United States for the three years ending June, 1851, is, by commerce and navigation report, \$11,156,342—on which the following amount of duty has been collected, as will herewith appear:

Statement of revenue collected in the different districts of the United States bordering on Canada, from 1849 to 1851 inclusive, (three years)

,					Ме	m.
Districts.	Gross revenue.	Expenses of collection.	Net revenue.	Excess of expenses.	Over.	Under.
Vermont	\$181,915 02	\$27,472 47	\$ 154, 442 55		1	; ,
Champlain	133, 326 68	22,965 22	*109,751 44		2	'
Oswegatchie	42,842 41	16,002 22	26,840 19		3	
Cape Vincent	22,410 78	14, 222 58	8, 188 20		4	:
Sackett's Harbor	16,603 54	27,000 95		\$10,397 41		1
Oswego	273, 173 92	38, 210 43	†234, 947 50		5	
Genesee	45, 324 66	13, 368 47	‡31,722 66		6	1.0
Niagara	44,076 44	• 21, 277 69	22,798 75		7	
Buffalo	148,740 03	49,601 19			8	
Èrie, (Presque Isle).	1, 155 26	31, 924 35		30,769 09		2
Cuyahoga	126,677 24	13, 228 71	113, 448 53		9	
Sandusky	34, 018 44	5, 927 49	28,090 95		10	,
Miami	244 54	2,470 40		2,225 86		3
Detroit	47,935 42	32,868 22	15,067 20		11	
Michilimackinac	1,797 42	4,535 02		2,737 60		
Chicago	10,670 41	10, 360 73	§154 75		12	
	1, 130, 912 21	331, 436 14	844, 338 50	46, 129 96	,	

^{*} After deducting \$610 02—moiety of sales merchandise distributed per act April 2; '44, s. 3.

RECAPITULATION.

		ILEQUAL I	IOLATION.	
Gross revenue	\$1,	130, 912 21 331, 436 14	Net revenue. Excess of expenses.	\$844, 338 50 46, 129 96
		,	, , , , , , , , , , , , , , , , , , ,	793, 208 54
	_		Add. amount deducted	
		799 476 07		799 476 07

t " " 15 99—duties on merchandise refunded. t " " 233 53—expenses attending prosecutions.

[&]quot; " 253 06—moiety of sales merchandise distributed per act April 2, '44, s. 3
" " 154 93—duties on merchandise refunded.

Total......1, 267 53—deducted from net revenue.

The first proposition for reciprocal free trade was confined to Canada alone, and limited to certain natural products of either country; but the question has since taken a wider range. It is now believed that an arrangement can be effected and carried out for the free interchange between the United States and the colonies, of all the products of either, whether of agriculture, of mines, of the forest, or of the sea, in connexion with an agreement for the free navigation of the rivers St. Lawrence and St. John, the concession of a concurrent right with British subjects to the sea fisheries near the shores of the colonies, and the remission of the export duty levied in New Brunswick on timber and lumber cut within the limits of the United States, and floated down the river St. John, for shipment to American ports.

The free navigation of the St. Lawrence was a prominent subject of discussion during the administration of John Quincy Adams. At this time it is greatly desired by all those western States bordering on the

great lakes, as their natural outlet to the sea.

The free navigation of the St. John has been rendered absolutely necessary by the provisions of the treaty of Washington, and it would be of great advantage to the extensive lumber interest in the northeastern portion of the Union. The repeal of the export duty on American lumber floated down the St. John to the sea would be but an act of justice to the lumbermen of that quarter, upon whom it now presses severely, and who have strong claims to the consideration of the government.

At present there are no products of the colonial mines exported to the United States, except a small quantity of coals from New Brunswick, and a larger quantity from the coal fields of Nova Scotia and Cape Breton. A notice of these coal fields, and a statement of the quantity of coals exported from them to the United States, will be found under the head of Nova Scotia.

A free participation in the sea fisheries near the shores of the colonies is regarded as the just prescriptive privilege of our fishermen. Without such participation, our deep-sea fisheries in that region will

become valueless.

With reference to this important subject, the undersigned feels that he would be wanting in his duty to the government if he did not earnestly call its attention to the critical state of the colonial fishery question, which, owing to a recent demonstration of imperial and colonial

policy, has assumed a very threatening aspect.

Since the Fishery Convention of 1818, by which this government, on behalf of American citizens, renounced forever their right to fish within three marine miles of the seacoast of New Brunswick, Nova Scotia, and Prince Edward Island, many of the hardy and industrious fishermen of our country have been compelled to pursue their adventurous calling (the importance of which cannot be over-estimated) near the shores of these colonies, in a manner by no means creditable to the standing or character of the people of the United States.

The files of the State Department furnish abundant evidence of the losses sustained by our citizens in consequence of their vessels having been seized and confiscated for alleged violations of the fishery conven-

tion, to which the necessities arising from the nature of their pursuit

compelled them.

For several years past, the colonists have constantly urged the imperial government to station an armed force on their shores, "to protect the fisheries from the unjustifiable and illegal encroachments of American fishermen." The force hitherto provided has not been such as the colonists desired, having usually been limited to three or four vessels, under the command heretofore of discreet officers of the Royal Navy, who have generally exercised the powers with which they were invested with liberal discretion.

With the view of bringing matters to a crisis, the colonial legislatures have lately renewed their appeals to the imperial government for aid to drive American fishermen from their shores, and compel them to follow their calling in places where fish are not so plentiful or so easily caught. And in order to show their own determination, the provinces of Canada, New Brunswick, and Nova Scotia have entered into an agreement to provide a certain number of small cruisers, at their own expenses to be stationed at various places agreed upon, to assist in

effecting the object they desire.

The last appeal of the colonial authorities has been viewed favorably by the new administration of Earl Derby. A change has taken place in the British policy with reference to this fishery question; and a circular letter has been sent to the governors of the several colonies, announcing that her Majesty's government has resolved to send a small force of armed vessels and steamers to North America, to protect the fisheries against foreign aggression. The colonial governments have fitted out six cruisers, fully manned and armed, which have sailed for the best fishing grounds, and there is imminent danger of a collision. The colonial cruisers threaten to make prize of every vessel "fishing or preparing to fish," within certain limits, which the colonial authorities contend are within three marine miles beyond a line drawn from headland to headland, and not three miles from the shores of the coast, which our citizens contend is the true reading of the convention.

Our fishermen generally entertain the conviction that the threatened exclusion by the British and colonial governments is a violation of rights, accruing to them under the laws of nations applicable to this subject and to that region, fortified by former use, till it has well nigh created a right by prescription; and many regard such threatened exclusion as an illiberal and uncalled for measure at this period, doing the British or the colonies no good, while it injures them seriously. In such a state of feeling it is next to impossible to prevent difficulties and collisions between them and the British authorities, and wrongs may be done on both sides. Every dictate of prudence and of wise policy, and just protection to our citizens against an uncalled for interference by imprudent subordinates, therefore, imperiously demands that the Federal government should, as soon as practicable, despatch to those waters, and maintain there, a respectable naval force, under command of discreet officers. It may be here not inappropriately observed, that ships-of-war bearing the American flag is a rare spectacle in the

waters of Maine, while British armed vessels often visit our coasts and harbors.

In conclusion, the undersigned would respectfully state, that, although the returns and statements herewith submitted furnish gratifying evidences of the commercial intercourse between the United States and the British North American colonies, and although those returns may be deemed perfectly correct, having been derived from official sources, yet it is proper for him to remark, that they do not represent the whole value of the trade.

It is well known that in many instances colonial produce is entered at prices much below its real value; and on the northeastern and northwestern frontiers of the United States there is ever an active barter trade carried on with the neighboring colonies, of which no account can be taken by the public officers on either side. It is therefore perfectly within bounds to estimate the entire exports of the United States to the British North American colonies as now amounting to eighteen millions of dollars annually.

It is universally admitted that it would be much better to place this border trade on a different basis, and under the influence of a higher principle. This would enable us to mature and perfect a complete system of mutual exchanges between the different sections of this vast continent; an achievement not only wise and advantageous, but worthy

of our high civilization.

It has been remarked by a learned writer, (Lord Lauderdale, on Public Wealth,) that "Those trades may be esteemed good which consume our products and manufactures, upon which the value of our land and the employment of our poor depend; that increase our seamen and navigation, upon which our strength depends; that supply us with such commodities as we absolutely want for carrying on our trade, or for our safety, or carry out more than they bring in, upon which our

riches depend."

The trade with the colonies fulfils all these considerations. It takes from us largely of those products and manufactures which enhance the value of our soil, and give profitable employment to the labor of our people. It greatly increases our ships and the numbers of our seamen, giving us the means of maintaining our navy, and adding materially to our strength as a nation. It supplies us cheaply with those commodities we absolutely require for conducting our foreign trade, and supplying the necessities of home consumption. And lastly, it carries out infinitely more than it brings in, and so adds vastly to our individual and national riches.

The undersigned has the honor to be your obedient servant,
I. D. ANDREWS,

United States Consul.

Hon. Thomas Corwin,

Secretary of the Treasury, Washington.

PART I.

THE DEEP-SEA FISHERIES

IN

The Bay of Fundy, along the coast of Nova Scotia, on the Grand Bank of Newfoundland, and within the Gulf of St. Lawrence.

In connexion with the pending question of commercial reciprocity between our country and the British North American provinces, and as concerning the interests of a large and valuable class of citizens in the fishing towns of New England, the fisheries on the Atlantic coast of Nova Scotia, as also those within the Gulf of St. Lawrence, near the shores of Cape Breton, Prince Edward Island, New Brunswick, and that part of Canada known as Gaspé, occupy a prominent position.

It is sufficient at this moment to state that, except near certain portions of the coasts of Newfoundland and Labrador, and around the Magdalen islands, our citizens are not permitted to fish, save at the

distance of three marine miles from the land.

It has been contended by the provincial authorities, acting under the opinion of the law-officers of the Crown in England, that these three miles are to be measured from headland to headland, and not from the bays or indents of the coast. Under this construction of the convention of 1818, our vessels have been sometimes seized and confiscated; but the imperial government has inclined to the opinion that this construction of the convention was too strict, and that our vessels might enter bays, straits, or estuaries, the entrances to which were more than six miles wide.

But even this modified construction of the convention bears hardly upon our industrious fishermen in a variety of ways, as I now proceed

to show.

The fishing grounds to which our vessels principally resort, are in the bay of Fundy; along the Atlantic coast of Nova Scotia; around Sable island; on the Grand Bank of Newfoundland; and everywhere within the Gulf of St. Lawrence, as far north as the entrance to Davis's

Straits, beyond the straits of Belleisle.

Our vessels principally fish for cod and mackerel, although they also take herrings at the Magdalen islands, or on the coast of Labrador. It is true that they have a concurrent right of fishing on the west coast of Newfoundland with the fishermen of England and France, and a joint right of fishing, with British subjects, on the coast of Labrador and at the Magdalen islands; as also the right of landing at such places

on those coasts as are uninhabited, for the purpose of curing and drying their fish; but this privilege is seldom, if ever, exercised, because it is

of no practical value to our fishermen.

Those portions of the coasts of Nova Scotia, Cape Breton, Prince Edward Island, and New Brunswick, on which it would be advantageous for our fishermen to land for purposes connected with the fishery, are prohibited by reason of their settlement and actual occupation, while they are shut out from the best fishing grounds by reason of the convention of 1818, which excludes them from taking fish within three marine miles of the coast, within which distance the best fish are often found in greatest abundance.

The limits claimed by the British authorities under that convention, if strictly enforced, would exclude our fishing vessels from the bay of Chaleur, the bay of Miramichi, the straits of Northumberland, and George's bay, within which the greatest quantities of the best mack-

erel are now taken annually.

If an arrangement could be made by which our fishermen would have the right to fish within three miles of the land, wheresoever they pleased, on the shores of the provinces, and also the right to land on those shores anywhere—first agreeing with the owner or occupant of the soil for the use of the necessary ground for fishing stations—it would tend greatly to increase the quantity of fish taken, would furnish the market with a well-cured article, enhance the profits of fishing voyages, and lead to a considerable extension of the number of vessels and men

now employed.

The codfish caught in the Gulf of St. Lawrence, by our fishermen, are pickle-salted in bulk, on board the vessels, as they are caught, and are thus brought home to be afterwards dried and cured. A liberal supply of salt is used, in which the fish first caught lie four months, and the last caught, one month. The vitality, so to speak, of the meat—its strength and flavor—is quite destroyed. When unladen from the vessel, the fish are found to be of a dead, ashy color, instead of the bright, wholesome hue which good fish should have; and so brittle as scarcely to bear handling—with hardly any smell or taste, except that imparted by salt. The home consumption of such an unpalatable article is gradually diminishing, while the inferiority of the cure deprives us of the advantages of foreign markets, for which these fish are wholly unsuited.

The mackerel taken in the gulf by our fishermen are split, salted, and dressed while the vessel is under way; and it often happens that a full fare is made in four or five days, when these fish are plentiful. In such case the vessel, being full, must leave the fishing when at its best, and make a long voyage to her port of return, in the northern States, in order to discharge; and before she can again reach the ground the chances are that the fish have disappeared, or that the season is over.

If our mackerel fishers could remain upon the fishing ground during the whole season—touching at some convenient station, occasionally, to land the fish on board, and thus keep their vessels in good sailing trim—five or six fares could be made in each season, instead of the two fares which they rarely exceed at present. The right of fishing within

three marine miles of the land is very important, as regards the mackerel fishery; because the best and fattest fish are generally found in the

largest schulls, in close proximity to the shores.

To the cod-fisher, the right to dry and cure his fish on shore would also be important. The vessel could be kept in better trim, and fresh bait could be more readily procured; the fish would be more perfectly cured, and fitter for food, than under the present mode of salting and curing. A superior quality of this description of fish would open to us not only the market of California, but also several foreign markets from which our fish are now excluded, by reason of their imperfect cure.

Immediately after the disappearance of the ice in the Gulf of St. Lawrence, every spring, vast quantities of herrings draw near the shores, in order to deposite their spawn. Our fishermen cannot participate in this fishery, because they are unable to enter the gulf so early. The quantity of ice passing out by Cape Breton prevents their doing so until the season for this prolific fishery has passed. If our fishermen could land and set up fishing stations on the coasts within the Gulf of St. Lawrence, they might send home the season's catch, by freighting vessels, and winter their boats and part of their vessels there. In such case they would be ready to participate in the early herring fishery, the moment the ice left the shores; and having procured a sufficient quantity for curing, they would also be furnished with an ample supply of bait for the early cod-fishing, which is excellent. As the herrings approach the shores they are naturally followed by the cod, which feed upon them. In the early part of May the cod are found in great abundance within half a mile or a mile of the land, in very shoal water, of course, they may be taken with perfect ease, and therefore with

Instead of returning to their port of ownership with the fares of herring and cod which might thus be taken before our vessels are now able to enter the gulf, these cod would be dried and cured in the best manner, by shore crews, and rendered fit for any market. The vessels and their fishing crews might at the same time be constantly and profitably occupied in pursuing closely the several fisheries, as they succeed each other, throughout the entire season, securing the best fish of every description, in the largest quantities. By leaving some of the boats and vessels on the coast, the fisheries, especially that for mackerel, might be prosecuted until some time after the period when our vessels are now obliged to leave the gulf on their homeward voyage, at

which late period the finest fall mackerel are always taken.

Permanent fishing stations within the gulf, with boats and vessels always there, would render the fishing season considerably longer for our fishermen. They would then share in the early spring and late fall fisheries, from both which they are now excluded by the existing

arrangements.

It is only necessary to advert to the frightful loss of life and property which occurred in the Gulf of St. Lawrence last October, to show how advantageous it would be to our citizens, if, instead of remaining at sea through the heavy gales which frequently occur in the gulf, their fishing vessels had each some convenient fishing station, well sheltered, to

which they could resort at all times, and where the crews could be rendered useful on shore during the continuance of bad weather at sea.

Navigation of the St. Lawrence.

In connexion with the right to land and cure fish on the shores of the gulf, the free navigation of the river St. Lawrence becomes a mat-

ter of much importance.

The fish caught by our fishermen in the gulf, instead of being sent by the long and dangerous voyage around Nova Scotia, in order to reach some port in the Union from whence to be sent into the interior, might, when ready for market, be shipped in our own vessels from the fishing stations on the coast, and these vessels proceeding up the St. Lawrence, might reach any or all of the ports or places on the great lakes, where a supply of sea-fish is highly prized.

The numerous and constantly increasing body of consumers in the great West, even to its remotest extremity, would thus be furnished with good fish at reasonable rates, caught and cured by our own hardy

fishermen, and transported in our own vessels.

French Fisheries at Newfoundland.

The recent movements in France with regard to bounties on fish caught at Newfoundland, and exported to foreign countries, are singularly interesting at the present time, because it will be found, from what follows, that the changes which take place during the present year in the allowance of those bounties are calculated to exercise a powerful effect on the deep-sea fisheries of the United States.*

Hereafter, we are to have fish caught and cured by citizens of France, entering our markets under the stimulus of an extravagant bounty, to compete with the fish caught and cured by our own citizens.

This altogether new and unexpected movement on the part of France has already attracted attention, and excited much interest and uneasiness among the fishermen of the eastern States. The matter at present stands thus:

The law of France which granted bounties to the sea fisheries being about to expire, the project of a new law was submitted to the National Assembly on the 20th December, 1850, by the government. An able report on these fisheries was at the same time submitted, which, among other things, sets forth, that the bounties paid by France during the nine years from 1841 to 1850 inclusive, for the cod-fishery only, had amounted to the mean annual average of 3,900,000 francs; the number of men employed annually in this fishery amounting to 11,500 on the average. The annual expense to the nation was therefore 338 francs per annum for each man. France, it is said, thus trains up able and

^{*}Translations of recent legislative documents of the National Assembly of France are appended to this report, and to these reference is made for full particulars. For these and other valuable documents the undersigned is indebted to Hon. Abbott Lawrence, minister at the court of St. James, to whom his best acknowledgments are justly due, and are respectfully tendered.

hardy seamen for her navy, who would cost the nation much more if

they were trained to the sea on board vessels of war.

Å committee of the National Assembly reported at length upon the proposed law, and the state of the deep-sea fisheries. From this report, it appears that these fisheries, although enjoying large bounties and privileges, were languishing, owing to the great distance at which they are conducted, and a farther increase of bounties on exportation was recommended, in order to stimulate their drooping energies. Upon this elaborate report, the National Assembly passed the proposed law on the 22d July, 1851. It provides that, from the first day of January, 1852, until the 30th June, 1861, the bounties for the encouragement of the cod fishery shall be as follows:

Bounties to the Crew.

1. For each man employed in the cod fishery, with drying, on the coast of Newfoundland, at St. Pierre, and Miguelon, or on the Grand Bank, 50 francs.

2. For each man employed in the fisheries in the seas surrounding Iceland, without drying, 50 francs.

3. For each man employed in the cod fishery on the Grand Bank,

without drying, 30 francs.

4. For each man employed in the fishery on the Dogger Bank, 15 francs.

Bounties on the Products of the Fisheries.

1. Dried cod of French catch, exported directly from the place where the same is caught, or from the warehouse in France, to French colonies in America or India, or to the French establishments on the west coast of Africa, or to transatlantic countries, provided the same are landed at a port where there is a French consul, per quintal metrique, (equal to 220½ pounds avoirdupois,) 20 francs.

2. Dried cod of French catch, exported either direct from the place where caught, or from ports in France, to European countries or foreign States within the Mediterranean, except Sardinia and Algeria, per

quintal metrique, 16 francs.

3. Dried cod of French catch, exported either to French colonies in America or India, or to transatlantic countries, from ports in France,

without being warehoused, per quintal metrique, 16 francs.

4. Dried cod of French catch, exported direct from the place where caught, or from the ports of France, to Sardinia or Algeria, per quintal metrique, 12 francs.

Bounty on Cod Livers.

5. Cod livers which French fishing vessels may bring into France as the product of their fishery, per quintal metrique, 20 francs.

From the foregoing scale of bounties, it will be seen that there are some grounds for the fears entertained by the fishermen of New England, that the dried cod caught and cured by the French at Newfoundland will be introduced into the principal markets of the United States, with the advantage of a bounty very nearly equal to two dollars for each American quintal—a sum almost equal to what our fishermen obtain for their dried fish when brought to market. It must not be overlooked, either, that, besides this excessive bounty on fish exported to transatlantic countries, the French fisherman will enjoy also the bounty of fifty francs (almost ten dollars) per man for each of the crew, a farther bounty of twenty francs per quintal metrique on the cod-oil which he lands in France; and farther, an almost entire remission of the duties on salt used at Newfoundland.

With competition at hand so encouraged and stimulated, it will soon be necessary to give our fishermen every facility and advantage for pursuing their business which by any possibility can be procured for them.

By the treaty of Paris of 1824, the French were restored to the fisheries at Newfoundland. They in a short time took possession of the west coast and the northeast coast, and, under the high stimulus afforded by their heavy bounties, they nearly drove the British fishermen off of those coasts, and competed successfully with them in the foreign markets they had previously supplied.

PART II.

THE TRADE OF THE LAKES.

In obedience to your instructions, the following detailed report is submitted on the condition, history, and prospects of the trade and commerce of the great lakes of America; the character, nature, quality, and value of their imports, exports, and coast-wise shipments, the places where originated, and whether on the increase or decrease; the present enumeration of their entrances, clearances, tonnage, and crews, whether progressive or retrogressive; with comparative statements of the present and past years; the facilities and obstructions to their free navigation and the transportation of goods; the internal improvements completed, under way, projected, or imperatively required; the character for productiveness, whether of agricultural or mineral wealth, or of that arising from fisheries or the forest of the circumjacent districts; the growth, prospects, and present condition of the harbors, light-houses, beacons, piers, and other works indispensable to secure navigation; and lastly, the farther works of construction, removal of obstacles, and general improvements of navigation, requisite for the development and exploration to the fullest extent of the inestimable resources of these noble waters, and the vast territories surrounding them.

It has been difficult to obtain much information and full detailed statements on some of these points, owing, it is believed, to the absence of proper legal requirements and authoritative departmental instructions in that respect, and the want of means (except at the private expense of the officers and others) of furnishing such statistical data. Most of the officers of the customs on the lake frontier are attentive, and are desirous of furnishing all the statistical and general information in their power, and many of the citizens engaged in trade and commerce, and in the shipment and transportation of produce and merchandise, and especially incorporated companies or associations, have frequently furnished the public with useful information on the lake trade

and commerce.

The interests of those engaged in such business are ordinarily advanced by expositions of such data. But full and authentic data, in proper form for ready compilation and condensation into intelligible tabular statements, especially those for comparison, cannot be obtained without legal provision to such end, and particular departmental instructions presenting uniform abstracts. Funds are also necessary, to compensate the time and labor devoted to such important service. Several of the most valuable revenue officers on the lake and inland frontier now receive inadequate compensation for their faithful and onerous services. And with respect to federal officers, punctuality

should be enforced by legal enactments. The organization of a statistical office, the duties of which should include the decennial census, as a permanent bureau attached to the proper department at Washington, to which full information and data from all the departments and offices at the seat of government and throughout the Union, and from all our officers abroad, should be rendered, and which could obtain like information from the State governments and other trustworthy sources, and from foreign governments likewise, might prove eminently useful.

Properly established, and conducted by intelligent, accurate, industrious persons, it might easily collect quarterly all the requisite data of our trade and commerce with foreign countries, of our internal trade and commerce, of our internal improvements and internal transportation, of our growing resources in every quarter, and of our coast-wise trade. And all statistical data that might be wanted, could be advantageously published in advance of every session of Congress. That such information would be invaluable to the statesmen of this country who seek to legislate upon national principles, no one can deny. That vigilant detector, the public press, would then be enabled to expose errors or fallacies in time to prevent their causing inconvenience.

Other governments, less liberal than ours, seek such information to enable them to find new objects for taxation: it would be especially important to ours as enabling it to abolish indirect or direct restrictions and burdens upon the advancement of every branch of industry, as it might then do without danger of mistake as to the facts. The paramount duty of this government is to relieve the people from all unnecessary taxation, and this measure would tend to further such object. Congress would not then, as is now too often the case, be compelled to legislate on such subjects in the dark, by conjecture, or, what is infinitely worse, upon the false data and incorrect and deceptive statistics furnished by interested persons.

Notwithstanding the difficulties now existing, it is believed that an approximation, sufficiently near the realities of the case to convey an adequate understanding of the subject, has been attained in the following pages; and that the results, as shown, will be alike gratifying to the enlightened and patriotic statesman, as displaying the immense development and incalculable prospects of the resources of his country, and astonishing to the casual observer, who has, it is prohable, never regarded the lake trade of the West as the right arm of the nation's commerce, or its area as the cradle of national wealth, prosperity, and progress.

For the convenience of reference and comparison, as well as from regard to historical and geographical propriety, the matter collected on this subject has been thus divided and arranged:

A review, general and detailed, of each of the lake districts of collection, seventeen in number, commencing from the Vermont district to the eastward as the first, and among the first constituted, and thence proceeding westward to the head of Lake Superior.

To each of these districts is attached a synopsis of such commercial and custom-house statistics as were attainable, and found to be to the

point; also, a general synopsis of the lakes, severally, with their trade and back countries; and added to these, detailed statistical tables in

reference to the whole of the great St. Lawrence basin.

To enter in this place on a discussion to prove what is so generally admitted as the advantages accruing to a country from a various and extensive commerce, would be superfluous; but, nevertheless, so little appears to be known, and such limited interest to be felt, in relation to our own internal commerce, and to its bearing on the trade and prosperity of the country at large, that a few words on its nature, past history, present requirements, and bearing on our commercial, social, and political condition, will not, it is presumed, appear entirely

impertinent.

In the first place, the general self-gratulation of the people and their legislators at the fact that within scarcely a century's lapse our foreign commerce has grown up to be second only to that of Great Britain, and to threaten it also with rivalry, appears to have blinded them to a perception of the difference of the circumstances attending maritime and inland navigation; of the reasons why the latter requires aid from the public to effect what in the former is safely left to the means and enterprise of individual communities; and, lastly, of the preponderating influence of the latter on the former branch of national prosperity. It appears, moreover, to have led casual observers to the opinion that, because our maritime commerce has experienced so wonderful an increase under circumstances somewhat untoward, it could have made no greater or further progress if liberally fostered by the hand of government; and, secondly, that because one branch of commerce has so succeeded, all other branches can so succeed.

To these propositions it may be replied, briefly:

First. That the maritime commerce merely exports to foreign markets the surplus productions of our country, whereby to purchase imports from the same or similar markets.

That this maritime commerce is sustained for the most part by opulent commercial communities, on whom no burdens rest, at farthest, but the construction of their own harbors and their maintenance.

That without a supply of produce for exportation, the foreign commerce would be carried on under such an adverse balance of trade as would be injurious rather than profitable.

That, for the present, the preponderance of our foreign exportations must be of raw material, as agricultural produce, produce of the forest,

the fisheries, and the field.

That even when this ceases to be the case, and our articles of export shall be more largely manufactures and articles of luxury, in lieu of raw produce, the necessity of raw produce to the seaboard and the large commercial cities will still exist and increase, from the necessity of supplying material and subsistence for the commercial or manufacturing population.

That of those articles of raw material which are neither shipped as foreign nor used as domestic provision, such as minerals and metals, every ton native, brought into the domestic market and manufactured at home for home use, supplants so much of foreign raw material or

manufacture, and tends thereby so far to change the balance of trade in our favor.

It is contended by some political economists, that of nations engaged in commercial pursuits, the largest exporters and the smallest importers must be the gainers, since a large excess of importation must cause a drain of the precious metals to pay for such excess. It does not follow that if this be true as to foreign or maritime commerce, it is equally so as to inland or interior trade.

The former cannot exist but by means of the latter; the latter may

exist, and in some sort flourish, without the aid of the former.

Again, for articles of bulk and weight, no means of transportation can compete with water carriage, especially for great distances. It is

the best and the cheapest.

This, then, is the position of our inland and maritime navigation and commerce: the former is the feeder of the latter, the source of its greatness; for at such a vast distance do our granaries and storehouses of agricultural and mineral wealth lie from our marts and workshops, that but for the network of lakes, rivers, and artificial improvements with which our country is so wonderfully intersected, they could never be rendered available for exportation, or home consumption on the seaboard, and in the old and thickly settled districts.

These considerations show the interest which the external or maritime commerce has in the advancement of the lake trade and navigation; and establish that the maritime commercial communities, and the commonwealth, should, as a matter of justice and duty, as well as of expediency, aid liberally all improvements which may facilitate the prosecution of business, the cultivation and exploitation, and yet more the transportation, of that produce which is necessary to the existence of the one, and the well-being of the other. The lake trade is obliged to effect much more by its own means than the foreign, and it has infinitely less means whereby to effect it.

It is well known that this inland or lake trade is in the hands of new States, peopled, for the most part, by emigrants, whose chief possession is their industry, swelling the coffers of the older and wealthier communities. The latter now virtually demand that these infant States shall not only produce, but transport produce, and clear the way for that transportation, for their benefit, at their own expense. Hence the expediency and justice of lending, under these circumstances, federal aid to the new States, so far as removing or surmounting such obstacles in free channels of trade open to all or any States, as are offered by the flats of the Lake St. Clair, the rocks and shoals of Lake George, or the Sault St. Marie, is, it is considered, incontestable.

The details of the districts, and the general synopsis of the lakes and lake country, will undoubtedly suffice to establish the facts and show the realities of the vast extent of the existing trade, its past growth, and its gigantic future. But a brief glance at its general features may be useful for the concentration of ideas and ready percep-

tion of results.

The coast line embraced in this report includes both shores of Lake Champlain, with which it commences (discharging its waters into the St. Lawrence by the Sorel or Richelieu river,) the southern bank of the river

St. Lawrence, Lake Ontario, the Niagara river, and Lake Erie, to the dividing line between New York and Pennsylvania; thence the southern coast of Lake Erie to the Pennsylvania and Ohio line; thence the southwestern coast of the same lake to the Michigan line; and thence the whole southern banks of the Detroit river, St. Clair lake and river, the western coast of Lake Huron, along the southern peninsula of Michigan, the whole coasts of Lake Michigan, including the shores of Illinois, Ohio, Wisconsin, and Michigan, and all the southern and southwestern coast line of Lake St. George, the river St. Mary's, and Lake Superior, including the shores of northern Michigan, Wisconsin, and Minnesota, to the frontier of the British possessions at the outlet of Rainy lake and Lake of the Woods into the waters of Lake Superior. The extent of the whole line exceeds three thousand miles in length, and embraces portions of the following States, several of them the wealthiest of the entire Union: Vermont, New York, Pennsylvania, Ohio, Michigan, Indiana, Illinois, Wisconsin, and the Minnesota Territory, on the one side; while the lakes open to our commerce on the other a coast line of nearly equal extent, and in some parts of hardly inferior fertility, on the Canadian shore. The lakes themselves, with their statistics of measurement, are as follows:

Lakes.	Greatest length.	Greatest breadth.	Mean depth.	Elevation.	Area.
g ·	Miles.	Miles.	Feet.	Feet.	Square miles
Superior	355	160	900	627	32,000
Michigan	320	100	900	57 8	22,000
Huron	260	160	900	574	20,400
Erie	240	80	84	565	9,600
Ontario	180	35	500	232	6,300
Total	1,555	_		_	90,000

These lakes are estimated to drain an entire area of 335,515 square miles, and discharge their waters into the ocean through the river St. Lawrence, which is rendered navigable from Lake Erie downward to all vessels not exceeding 130 feet keel, 26 beam, and 10 feet draught, and the free navigation of which for American bottoms may, it is anticipated, be acquired by the concession of reciprocity of trade to the Canadian government.

The whole traffic of these great waters may be now unhesitatingly stated at \$326,000,000, employing 74,000 tons of steam, and 138,000 tons of sail, for the year 1851; whereas, previous to 1800 there was scarcely a craft above the size of an Indian canoe, to stand against an aggregate marine, built up within half a century, in what was then almost a pathless wilderness, of 215,000 tons burden. It may be interesting to state that the first American schooner on Lake Erie was built at Erie, Pennsylvania, in 1797, but she was lost soon afterward, and the example was not followed.

Another point should be here mentioned in regard to this vast augmentation of maritime force and tonnage, which is that the increase of business is most inadequately represented by the increase of tonnage; since, by the increased capacities of the vessels, their speed while under way, their despatch in loading and unloading, and the substitution of steam as a motive power, both for sail on the waters and for human labor at the dock, the amount of traffic actually performed by the same amount of tons in 1851, as compared with that performed in 1841, is greater by ten-fold.

To illustrate this position, it is worthy of notice that, in 1839, the twenty-five largest steamers on these lakes had an average of 449 tons burden, the largest being of 800 tons. In 1851 the average of the twenty-five largest fell little short of 1,000 tons, and the average of the whole steam fleet, consisting of 157 steamers and propellers, was 437 tons. Ten years since, from a week to ten days was allowed to a first-rate steamer for a voyage from Buffalo to Detroit and back. In 1851, three days only were required by first-rate steamers, and four to five

by propellers.

These facts show that four times as much business is transacted in 1851 by ten steamers, as was effected by the same number in 1841. The substitution of steam for sail in the same period has, it is evident, effected a yet greater increase in the speed of transit and celerity of transhipment; and this substitution is hourly on the increase; in proof of which, of 7,000 tons of shipping now on the stocks at Buffalo, 250 only—one brig—are sail; all the remainder steam or propellers.

Of this latter species of vessels the increase is so great and so regular, and so rapidly are they growing into favor, that there can be but little doubt that they are destined ultimately to supersede vessels propelled by sail only, especially for voyages of moderate length, and in localities where fuel is abundant and easily to be procured. In no region of the globe are these two conditions, on which rests the availability of screw-steamers, more perfectly complied with than on the lakes, where the longest voyages do not exceed three weeks, at an extreme calculation, and where bituminous coal of a very fine quality can be procured at an average price of three dollars and a half per ton, and at many points at two and a half on the docks.

The following table, taken from a very valuable report by Messrs. Mansfield and Gallagher, of the statistics and steam marine of the United States for 1851, will show the comparative force of the steamers employed in the oceanic and the lake trade, and will exhibit a result sufficiently surprising to readers unacquainted with the business of the in-

terior.

Description of vessels.	Number.	Tonnage.	Officers and crews.
Ocean steamers, (coast)	96	91,475	4,548
Ordinary steamers "	382	90,738	6,311
Propellers "	67	12,245	542
Steam ferry boats "	80	18,041	369
Total coast	625	212,500	11,770
Ordinary steamers, (lake and river)	663	184,262	16,57
Propellers " "	52	15,729	817
Steam ferry boats " "	50	4,733	214
Total lake and river	765	204,725	17,607
Steam marine, coast	625	212,500	11,770
" inland	765	204,725	17,607
Total	1,390	417,226	29,377
Excess of lake and river	1406	7,775 dim.	5,837

The distribution of steamers in the basin of the lakes is as follows:

District of Burlington	 11
Plattsburgh	6
Ogdensburgh	4
Sackett's Harbor	1
Oswego	 9
Rochester	2
Niagara	 1
Buffalo	 42
Presque Isle	 7
Cleveland	 13
Sandusky	 1
Toledo	4
Detroit	47
Michilimackinac	 12
Chicago	 4

The number on each lake is-

Champlain	17
Ontario	17
Erie	114
Erie	19
Straits	1.4
Michigan	14

The entire number of vessels and crews of the interior trade amounts to 140 bottoms, and 5,837 men, in excess of the whole ocean and coast navy, though the tonnage employed in the latter is smaller by 7,775 tons.

It is for this wealthy commerce of the interior that all the Atlantic cities are now striving, in earnest competition, by the creation of new outlets and avenues, for its transaction; and this very competition is good evidence that all the eastern or New England and middle States

are, in some sort, more or less affected by it.

The great system of exchange between the cities of the ocean seaboard and the entire West is transacted through the lakes, and the channels connected with them; and it is not uninteresting to observe that the increase of the population in the Atlantic States, and that of the tonnage of the West, have kept even pace with each other.

Table of population and tonnage.

Years.	N. E. States- population.	Per ct. increase	Middle States— population.	Per ct. increase.	N. W. States— population.	Per ct. increase.	Tonnage of lakes.	
1790	1,009,823 1,233,315 1,471,891 1,659,808 1,954,717 2,234,822 2,728,106	22.1 19.3 12.8 17.7 14.3 22.07	958, 632 1, 401, 070 2, 014, 695 2, 699, 845 3, 587, 664 4, 526, 260 5, 898, 735	958.6 46.15 43.79 34 32.88 26.16 30.32	None. 50, 240 272, 324 792, 719 1, 470, 018 2, 967, 840 4, 721, 430	442.04 191.09 85.43 101.89 59.08	3,500 20,000 75,000 215,787	,

In this scheme it must be observed that the six New England States, Maine, New Hampshire, Vermont, Rhode Island, Massachusetts, and Connecticut, possess an area of 63,326 square miles, with a population

of 2,728,106, being 43.09 persons to the square mile.

The Middle States, New York, New Jersey, and Pennsylvania, possess an area of 100,320 square miles, with a population of 5,898,735, or 58.80 persons to the square mile; while the northwestern States, Ohio, Indiana, Illinois, Michigan, Iowa, Wisconsin, and the Minnesota Territory, have an area of 373,259 square miles, with a population of

4,721,430, or 12.70 persons to the square mile.

When this last division shall have become as densely populated as the middle States now are, it will contain a population, directly tributary to the trade of the lakes, of 22,000,000 of souls; and there is every reason to believe that the increase of population will be as rapid, until that result shall be fully attained, as it has been since 1800. How wonderful and grand a spectacle will it then be to many, doubtless, of those now born, when, at the commencement of the twentieth century, this lake country shall be seen supporting a population of so many millions! And what will then be the amount and value of that trade, and the aggregate tonnage of that marine, which has sprung up, in less than forty years, from nothing to two hundred thousand tons of steam and shipping!

It is stated that the entire amount of appropriations made by government, for the benefit of all rivers and harbors, since its first organization, has been \$17,199,233, of which only \$2,790,999 were devoted to the lakes, the balance being all for the Atlantic coast and rivers; and that, too, in face of the facts, that in consequence of several unavoidable disadvantages, in the present condition of the lake coasts and harbors, there is greater proportional loss of life on these waters than on

the ocean itself and all its tributary seas.

It may be well to note here the loss of property and life by marine disasters on the lakes, which are not only in themselves most lamentable, but which become far more deplorable when it is considered that at a small outlay the navigation could be rendered as safe, at the least,

as that of any other waters.

The disadvantages alluded to above are to be found in the facts, that while the lakes are exposed to squalls, gales, and tempests, as violent as those of the ocean, they have not sufficient sea room to allow of a vessel scudding before the weather, since, if the gale were of any duration, she would soon run from one end to the other of the lake, on which she might be caught, and so incur fresh and perhaps greater danger. In like manner, the breadth of these basins is so comparatively diminutive, and so much beset with dangerous reefs and rocky islands, that a vessel cannot long lie to, in consequence of the terrible and insidious drift which is ever liable to drive her to unforeseen destruction.

The following table will exhibit the loss of life and property incurred during the four last succeeding years, which are surely disastrous enough to plead trumpet-tongued with government for the extending some means of security and protection to the navigators of those peril-

ous seas of the interior.

Years.	Property.	Lives.
1848	\$420,512	55
1849	368,171	34
1850	558,826	395
1851	730,537	79
Total of four years	2,078,046	563

The excess of lives lost in 1850 was occasioned by the explosion of the boilers on board two steamers, and the burning of the third, which had on board a large number of emigrants; this may be therefore in some degree deemed accidental and extraordinary, as such catastrophes are of rare occurrence on the lakes. The great preponderance, however, of the year 1851 over those of 1848 and 1849, has no such palliation, since they were the effect of heavy gales, the absence of harbors necessary for the protection of mariners, and the obstruction of the mouths of such as do exist, by bars, on which a terrible surf breaks, and which entirely preclude the possibility of entering the place to which they have in vain fled for refuge. It is of little benefit to the mariner that the government has expended comparatively inconsiderable amounts in the erection of piers and light-houses at the entrance of a few barmouthed rivers and harbors.

The total of the losses on the Atlantic, Gulf of Mexico, and Pacific coasts, in the year 1851, amounted to 328 vessels, and many hundred lives, out of a total marine measuring 3,556,464 tons, being a loss of

one vessel to every 10,844 tons of shipping.

The lake losses of the same year were 42 vessels, and 79 lives, out of a marine measuring 215,975 tons, being a loss of one vessel to every 5,142 tons of shipping. The proportion of vessels lost on the lakes is therefore much in excess of the losses on the ocean coasts, and that of lives still more so.

In this point of consideration it is worthy of remark that a single powerful government steam-dredge could be kept continually in commission, and employed during seven months of the year, which could, with perfect ease, remove the obstructions on the flats of Lake St. Clair and Lake St. George, open the bars, and deepen the beds of all the harbors, from one extremity of the lakes to the other, in the course of a very few years, and keep them unobstructed, thenceforth to the end of time, by an annual appropriation of one-fourth the amount of the augmented compensation recently granted to the Collins line of steamers; and, of course, two such vessels, materially lessening the duration of the work, for one-half that appropriation.

Nor does it appear that the opening an area so vast to the enterprise and efficiency of our inland commerce, giving perfect protection to so important a branch of the national marine as that employed in the navigation of the lakes, is an end less worthy than the furthering and encouraging any system of post office transportation, and ocean steam-

marine, however incomparable its deserts; and this without regarding the preservation of what is generally held invaluable among earthly

things—the life of human beings.

The expediency and justice are thus shown of extending some meed of protection and encouragement to the regions, with their ports, harbors, and marine communications, which are the theatre of a commerce so valuable as that for which all the Atlantic cities are contending; and to perfect the internal and inland communications of which, by canals and railroads, the young States, in which that theatre is placed, are making so great efforts.

The policy of doing so cannot but be seen on considering the effect which the construction of railways, the opening of canals, and the facilitation by all means of transportation and intercommunication, has upon the growth of cities, the population, cultivation, wealth and prosperity of districts, which actually seem to grow and expand in arithmetical progression to the ratio of their improved accessibility, and the number of their outlets and avenues for commerce and immigration.

It may not, therefore, be now impertinent to examine the operation of these influences on the unparalleled increase of the West, which can

in fact be traced directly to these causes.

It has been shown already that, however remote the period of the discovery, exploration and partial colonization of these wilds and waters, anything like practical navigation of them for commercial purposes was unattempted until after the commencement of this century. În 1679 a French craft indeed was launched at Erie, Pennsylvania, for the expedition of the celebrated and unfortunate La Salle; but this, which was an experiment for a special purpose, wholly unconnected with trade, was not followed up. In 1797, as has been before stated, the first American vessel was launched on the lakes. In 1816 the first steamer was built on the waters of Lake Ontario, and the first on Lake Erie in 1818. For some considerable time the first vessels put in commission on Lake Erie were used merely for facilitating the movements and operations of the Indian traders, carrying westward supplies and trinkets for the trade, and returning with cargoes of furs and peltries. In 1825 the Erie canal was completed, and its influence began at once to be felt through the western country. The western portion of the State of New York immediately began to assume an air of civilization and to advance in commercial growth. This influence continued still to increase until the Welland canal and the Ohio canals were completed. The tonnage, which had then increased to about 20,000 tons, found at this time full employment in carrying emigrants and their supplies westward, which continued to be their principal trade till 1835, when Ohio began to export breadstuffs and provisions to a small extent. In 1800 Ohio had 45,000 inhabitants; in 1810, 230,760; in 1820, 581,434; in 1830, 937,903.

During this year a portion of the canals was opened, and during the ten years next ensuing after 1830 some five hundred miles of canals had been completed, connecting the lakes by two lines with the Obio. Under the influence of these improvements the population of the State augmented to 1,519,467 individuals. In 1835 she exported by the lakes the equivalent of 543,815 bushels of wheat. In 1840 her ex-

ports of the same article over the same waters were equivalent to 3,800,000 bushels of wheat, being an increase, in the space of five years, in the articles of wheat and flour, of what is equal to 3,300,000 bushels of wheat, or nearly six hundred per centum. These articles are selected, as being the most bulky, morder to illustrate the effect of canals upon lake commerce. At this period, 1840, there were not completed over two hundred miles of railway in the State, and this distance was composed of broken portions of roads, no entire route existing as yet across the length or breadth of the State. In 1850, there were in operation something over four hundred miles of railroad, and rather a greater length of canals, while the population had increased to 1,908,408, and her exports, by lake, of wheat and flour, were equivalent to 5,754,075 bushels of wheat, and that, too, in spite of the fact that the crop of 1849 was almost an absolute failure throughout the West.

In 1851 the exports of wheat and flour, by lake, were equivalent to no less than 12,193,202 bushels of wheat; and the cost of freight and shipping charges on this amount of produce falls little, if any, short of \$510,000; nearly the whole amount having reached the lakes via the

canals and railways of Ohio.

Similar sketches of the other northwestern States, during their rise and advancement to their present condition of prosperity, and influence on the confederation, might be adduced in this place, all equally flattering to the energy and enterprise of the western people, and to the influence of internal improvement on commerce; but this narrative of the eldest State of the group will suffice to illustrate the subject, and give some idea of the unexampled progress of the whole.

Westward of Ohio, the Wabash canal brings the vast productions of Indiana to the lakes, passing through a small portion of Ohio, from the port of Toledo to the junction, thence to Evansville, on the Ohio river, and traversing the entire length of the Wabash valley, one of the finest wheat and corn countries in all the West. This canal is four hundred and sixty-four miles in length, and is one of the most important of re-

cent improvements.

It is worthy of note here that, in addition to its vast commercial business by the great lakes, Ohio, and more particularly its commercial capital, Cincinnati, the largest, wealthiest, and finest city of the west, and the great emporium of that region, has an immense commerce, both in exports and imports, by the rivers Ohio and Mississippi; and it appears that a larger portion of groceries are imported for the use of the interior, into Cincinnati, by the river, than to the lake-board, via the lakes; and farther, that while a much larger portion of the trade in cereal produce goes by the lakes, a majority of the live stock and animal provisions is sent by the rivers or otherwise. No ill effect is produced, however, on either commercial route, by this competition, but rather the reverse, there being times when either route alone is closed to navigation—the lakes during the winter by the ice, and the Ohio by the failure of its waters during the summer droughts. There is, moreover, commerce enough amply to sustain both channels; and while the State, its beautiful capital in particular, is a great gainer, no port or place of business is a loser by this two-fold avenue and outlet for commercial transportation.

The southern Michigan and northern Indiana railway terminates both at Toledo, Ohio, and at Monroe, Michigan, on the lakes, and runs westward, through the southern counties of Michigan and the northern counties of Indiana, to Chicago, at the head of Lake Michigan, on the eastern border of Illinois. This road passes through some of the most fertile portions of these States, and, being recently completed through its entire length, may be confidently looked to as sure to add greatly to the commerce of the lakes at its termini.

Farther to the northward, on the Detroit river, the central Michigan railway communicates across the peninsula, from the city of Detroit, with New Buffalo and the lake; and, having been open some years, has done more to develop the matchless resources of this State, and to urge it forward to its present commanding position, than any one other route. Cities, villages, and large flouring mills are springing into existence everywhere along the line of this road, depending upon it as the avenue of their business to the lakes.

The Pontiac railway and many plank roads connect various other points of the interior, and are vastly beneficial to the commerce of the lakes.

Following the line of the lakes westward, Lake Huron may be passed over, as presenting no internal improvements worthy of note. One of the principal of those which are already projected, is the extension of the Pontiac railroad to Saginaw, touching at a point on the St. Clair river, opposite to Sarnia, Canada West, where it is destined to communicate with a branch of the great western railway from Hamilton, on Lake Ontario, to Lake Huron. Another road is also projected in Canada, from Toronto, across the peninsula, by Lake Simcoe, to Penetanguishine, on the great Georgian bay, which will shorten the route to the Sault Ste. Marie, by many hundred miles, and, should the much demanded and long proposed ship canal around the Sault be now at last effected, will tend more largely than any other improvement to develop and bring to a market the incalculable mineral resources of Lake Superior.

Southward of Lake Superior, and bordering on the western shore of Lake Michigan, lies the upper or northern peninsula of Michigan, and the northern portion of Wisconsin, little known as yet, except to lumbermen, trappers, traders and voyageurs, and naturally hitherto the theatre of uo internal improvements tributary to the commerce of the lakes.

Passing southward, however, to Green bay, and its sources in the interior of Wisconsin, there are lately completed some improvements in the internal navigation of that State, which are, perhaps, of more importance to the future growth of the lake commerce than any yet perfected in any part of the State. These are the works on the Fox river, and the canal connecting the waters of that stream with the Wisconsin, which opens the steam navigation of the lakes to river craft, and vice versā. although it is scarcely probable that the same vessels which navigate the lakes will pass through the rivers. This, in fact, is by no means necessary to the success of the project, the importance of which is found in the fact, that by it the steam route from the Atlantic to the upper valley of the Mississippi is incredibly shortened; and thereby

the whole trade, springing into existence throughout that vast upper

country, is, in a great degree, rendered tributary to the lakes.

'The junction of the Wisconsin and Mississippi rivers is, in fact, by this route brought nearer to the lakes than to St. Louis; and the transportation of goods being by an uninterrupted line of steamboat navigation throughout the whole chain of lakes and across the State of Wisconsin, the trade to be one day transacted by this route will be enormous.

The richness of the soil of Wisconsin in the valleys of the rivers, and on the borders of Lake Winnebago, is rarely surpassed or equalled, and towns containing from one to three thousand inhabitants are everywhere springing into existence through her territories, which are probably des-

tined to become, in a few years, great commercial cities.

Southward of this route there are no very important channels of communication tributary to the lakes until we reach Chicago, where Lake Michigan is connected with the Illinois river by a canal of 100 miles in length, opening to that lake the vast wealth and traffic of the richest corn valley in the known world.

Railroads are also projected from Milwaukie, one of which is completed some forty miles to the westward, which is destined to extend to the Mississippi. There are also plank roads from many points, more or less useful as avenues of commerce to the lakes: at present, however, the only communication between the northern and southern routes is by the Illinois and Michigan canal. This was originally intended to be a ship canal, connecting Chicago with Peru, on the Illinois river, but was only constructed equal to the admission of ordinary canal boats, which can, on reaching the latter point, be towed by steam down the river to St. Louis, and return thence laden with sugar, hemp, tobacco, flour or grain, and thence by horse power to Chicago.

Whether the original plan of this canal will ever be carried out, is at best very problematical, since there are obstacles in the periodical shallowness of the waters of the Illinois which would frustrate the only object of the improvement, to wit, the through-navigation of the works by

lake craft.

This canal was opened in May, 1848, and the first section of the Chicago and Galena railroad in March, 1849. In 1847, the year previous to the opening of the canal, the real estate and personal property in Cook county, of which Chicago is the capital, was valued at \$6,189,385, and the State tax was \$18,162. In the year following, when the canal had been one season in operation, the valuation rose to \$6,986,000, and the State tax to \$25,848. In 1851 this valuation had risen yet farther to the sum of \$9,431,826, and the State tax to \$56,937. In 1840 the population of Chicago was 4,479, and the valuation of property not far from \$250,000; while in 1851 the population was about 36,000, and the assessed valuation of real and personal property was \$8,562,717. 1847 the population, according to the city census, was 16,859; in 1848 it was 20,023; in 1849, 23,047; and in 1850, according to the United States census, 29,963; having increased twice more rapidly than before, since the completion of the canal. The population of Chicago at this time-August, 1852-is nearly, if not quite, 40,000.

In regard to this train of argument, and to this view of the effect of

internal improvements on the growth of the West, and on the commercial condition of that portion of the country, it will be well to follow up the same train of examination in relation to the growth of certain points to the east of the great lakes, such as Buffalo, New York, Oswego, Boston, and other cities directly affected by the same commerce, through the internal channels of communication in New York and Massachusetts.

In 1800, the city of New	York,	with its	suburbs,	had a po	pulation
of	63,000	-in 1850), of		700,000
Boston	38,000	66			212,000
Philadelphia city and co.	73,000	46			450,000
Cincinnati					
Buffalo					
Oswego					
Albany		66			
Chicago		. "			29,963
St. Louis	2,000				77,860
					•

Hence it appears, that between the years 1800 and 1850 the population of New York and its suburbs doubled itself once in every 16 years; Boston, once in every 25½; Philadelphia, in every 20; Cincinnati, in every 6½; Albany, in every 15; St. Louis, in every 9½ years.

This covers a term of half a century; but from 1810 to 1850, a period of forty years, the population of New York doubled itself once in every 15 years; Philadelphia, in 18½; Boston, in 18½; Albany, in 16; Cincinnati, in 7; St. Louis, in 9½; Buffalo, in 8½, and Detroit, in 8½.

From 1820 to 1850, a period of thirty years, the population of New York doubled once in 13 years; Philadelphia, in 16; Boston, 15; Albany, 15½; Cincinnati, 7½; St. Louis, 7; Buffalo, 6½; Detroit, 8.

From 1830 to 1850, a period of twenty years, the term of duplication—this being the first census taken after the opening of the Erie canal, but before its influence had been much felt on the seaboard, owing to the non-completion of the Ohio and lateral canals—was, in New York, 15 years; Philadelphia, 17½; Boston, 20; Albany, 20; Cincinnati, 8½; St. Louis, 5½; Buffalo, 8½; Detroit, 6; Cleveland, 5; and Sandusky, 5. And from 1840 to 1850—a period of ten years, during which nearly the whole western population had become exporters by means of the Ohio, New York, and Philadelphia canals, and the various lines of railway—the effect of these influences on the period of duplication in the cities of Boston, Philadelphia, and New York, has been truly astonishing; but the same influence, reacting and reflected from the East upon the western cities is yet more wonderful.

According to the ratio of their increase during these ten years, New York would double her population in 12 years; Boston, in 12; Philadelphia, in 12½; Baltimore, in 13½; Albany, in 16½; Cincinnati, in 6; St. Louis, in 4; Buffalo, in 8½; Detroit, in 9; Cleveland, 6½; Sandusky, 5½; Chicago, 4; Milwaukie, 3½; Toledo, 6; Oswego, 8.

Hence it appears, that every new improvement is bound by inevitable laws to pay its tribute to some great channel of internal commerce. The existence of such a channel has indirectly created the

necessity for the improvement; and the same law which called it into existence as necessarily requires it, by a reactionary impulse, to in-

demnify its creator.

Before the present century shall have passed away, the United States will undoubtedly present to the world a spectacle unequalled in past history. More than fifty millions of republican freemen, all equal citizens of a confederacy of independent States, united by congenial sympathies and hopes; by a devotion to the principles of political and religious freedom, and of self-government; bound together by a common language and harmonious laws, and by a sacred compact of union, will also be firmly cemented with one another by indissoluble bonds of mutual dependence and common interests. The remote sections of the confederacy will be made near neighbors by means of canals. Railroads will chain all the several parts each to each; the whole people from the Pacific to the North Atlantic ocean, from the great lakes to the Gulf of Mexico, cultivating the arts of peace and science, and incited by a genuine rivalry for the accomplishment of the real mission of the American people.

THE LAKE DISTRICTS,

WITH A DESCRIPTION OF EACH;

STATISTICAL STATEMENTS OF THE CANADIAN AND DOMESTIC TRADE, AND A GENERAL SUMMARY.

No. 1.—DISTRICT OF VERMONT.

Port of entry, Burlington; latitude 44° 27', longitude 73° 10'; pop-

ulation in 1830, 3,525; in 1840, 4,271; in 1850, 6,110.

This, which is the easternmost of all the lake districts, comprises the whole eastern shore of Lake Champlain, from its southern extremity at Whitehall to its northern termination, excepting only a few miles at the head of Missisquoi bay, which fall within the Canadian line; and embraces all those portions of the State of Vermont which are subject to

custom-house regulations.

Lake Champlain is about one hundred and five miles in length, and varies in breadth from one to fifteen miles; it contains several islands, principally toward the upper end, of which the largest are North and South Hero, and La Motte island; and, in addition to all the waters of Lake George, its principal affluent, the outlet of which enters it at Ticonderoga, receives nine considerable streams: the Otter creek, the Onion river, the Lamoile, and the Missisquoi, from Vermont to the north and eastward; the Chazy, the Saranac, the Sable, and Boquet rivers, on the west, and Wood creek on the south, from the State of New York. It discharges its own waters into the St. Lawrence by the Sorel or Richelieu river, in a northeasterly course; the navigation of which has been improved by the works of the Chambly (Canadian) canal, so as to afford an easy communication for large vessels to the

St. Lawrence, and thereby to the great lakes. From its southern extremity it is connected by the Champlain canal with the Mohawk river and the Erie canal, at the village of Waterford, where the united works enter the Hudson, and thus form a perfect chain of inland navigation from the lakes of the far northwest to the Atlantic seaboard. The whole length of the Champlain canal, including about seventeen miles of improved natural navigation on Wood creek and the Hudson river, is about sixty-four miles. It is forty feet wide on the surface, twenty-eight at the bottom, and four deep. The amount of lockage is eighty-four feet. On account of this artificial line of intercommunication, Lake Champlain is included, not improperly, in the great chain of American lakes; although, to speak strictly, it is not one of them, having no natural outlet directly into them, and so far from being the recipient of any of their waters, serving, like them, itself as a feeder to the St. Lawrence.

The lake is bordered on its eastern shore by lands composing this district, with a coast line of considerably more than a hundred miles, including its many deep, irregular bays and inlets, of great productiveness and fertility, especially adapted to grazing and dairy farms, and to the cultivation of the northern fruits. Its western shores are, for the most part, high, wild, and barren, soon rising into the vast and almost inaccessible ridges of the Adirondack mountains, lying within the counties of Hamilton, Herkimer, and Essex, in New York, a region the wildest and most rugged, the least adapted to cultivation or the residence of man, of any to the eastward of the great American desert; and still the haunt of the deer, the moose, the cariboo, the otter and the beaver, the wolf, the panther, and the loup-cervier, which still abound in this fastness of rock, river, lake, and forest, almost within sound of great and populous cities.

By its means of communication with the St. Lawrence, and its outlet to the Hudson, this lake has become the channel of a large and important trade with Canada, especially in lumber, employing nearly two hundred thousand tons of craft and shipping, counting the aggregate of entries and clearances, and giving occupation, to speak in round

numbers, to twelve thousand men.

The opening of the Ogdensburg and Vermont railroads, connecting New York and Boston more directly with the lakes, has, it is probable, in some degree affected this trade; at least, the returns of 1851 exhibit a falling off in the Canadian trade of Lake Champlain. It does not, however, appear that the opening of new channels of trade is wont usually to affect the interests of those already existing, but, on the contrary, by increasing facilities and consequently augmenting demands, adds to the liveliness and vigor of business, and is ultimately beneficial to all. Hence, there appears no just cause for apprehending any permanent decrease or deterioration of the shipping interests, connected with Lake Champlain.

Burlington, the port of entry of this district, is the largest town in the State of Vermont, containing about ten thousand inhabitants. It is beautifully situated on a long, regular slope of the eastern shore, ascending gradually from the head of Burlington bay, on the southern side of the debouchure of the Onion river into the lake, and is the capital of Chittenden county, and by far the most considerable commercial place of the State. It has, moreover, a fine agricultural back country, of which it is the mart and outlet. Burlington is distant from New York, by railway, about three hundred miles; from Boston two hundred and thirty-five; and from Montreal one hundred. By its possession of a central position, with the advantages of both land and water steam facilities, alike for travel and transportation to the grand emporia of Canada, New England, and New York, it is making rapid advances in wealth and population; and now, with railroad communications open on either side of the lake, can scarcely fail to improve and increase, in a ratio commensurate with that of the improvements in its vicinity.

The only method, within our reach, of arriving at the aggregate amount of the lake commerce and traffic, is by taking the accounts of the canal office at Whitehall, which exhibit the amount and value of merchandise delivered at the lake, and the quantity and value of produce received from the lake; and then by estimating the coasting trade of the lake above Whitehall which does not reach the canal. By deducting from the aggregates of these, the Canadian trade of the districts of Vermont and Champlain, we arrive at the gross amount of the aggregate coasting trade of the whole lake, as comprising both the collection districts; but owing to this compulsory mode of procedure, no definite understanding of the proportion of commerce attaching to each, separately, of the two districts, can be reached.

The amount of assorted merchandise delivered into Lake Champlain

in 1851 was 125,000 tons, at \$1 75 per ton.

Average valuation as on Erie canal	. 3,515,895
Total commerce of the lake	26,390,895

The Canadian trade of Vermont district, for the years 1850 and 1851, was as follows:

Exports of domestic produce	\$651,677	\$458,006
" foreign merchandise	294,182	309,566
Total exports Total imports	945,859 607,466	767,572 266,417
Total Subtract total of 1851	1,552,325 1,033,989	1,033,989
Decrease of 1851	519,336	

The tonnage in the Canadian trade for the two years was as follows:

Year. 1851			000	Tons. 91.967 105.359
Decrease in 1851	30	28.578	36	13.390

The aggregate shipping of Lake Champlain, both foreign and coast-wise, is represented to have numbered 3,950 entrances, measuring 197,500 tons, and employing 11,850 men, with a corresponding number of clearances of the same measurement and crews.

The enrolled tonnage of this district in June, 1851, was 3,240 tons

of steam, and 692 tons of sail.

Tonnage.			
Inward.—American		steam. sail.	Tons. 56,421 17,490
	504		73,911
British		steam. sail.	9,566 10,758
	284		20,324
Outward.—American		steam. sail.	58,024 17,020
	*565		75,044
British		steam.	9,321 7,602
	230		16,923
Value of produce imported from Canada in bond Value of imports from Canada			311,512 251,211
ported to Canada			458,006 108,712
Value of foreign goodsValue of goods of foreign produce and manufa	cture	ex-	ŕ
ported to Canada in bond	outh.	3	200,854 ,515,895
I T			

No. 2.—District of Champlain.

Port of entry, Plattsburgh; latitude 44° 42′, longitude 73° 26′; population in 1830, 4,913; in 1840, 6,416; in 1850, 5,618.

^{*}The Canadian trade of this district, principally, is in American vessels.

This district, which is situate on the western side of Lake Champlain, over against that last described, including the peninsula at the lower end between the waters of that lake and Lake George, with the thriving town of Whitehall and the outlet by the Champlain canal, has a coast-line of equal extent, though less indented by bays, than the

opposite district of Vermont.

It has two principal harbors—Whitehall, situate on both sides of Wood creek, at its entrance into the lake, in a beautiful and romantic site, with considerable water power, through which passes the very great majority of the whole export and import trade for Canada, and which is a singularly flourishing and improving village; and Plattsburgh, near to the upper extremity of the lake, at the head of a fine and spacious bay at the debouchure of the Saranac river, by which it is connected with the mineral and lumbering regions of the interior, and with the recesses of the Adirondack chain. The village is well laid out, and contains the United States barracks, and several prosperous manufactories on the river. This district has little or no back country, the mountains rising abrupt and precipitous from the very verge of the lake in many places, and leaving a narrow strip of shore only, with a few villages scattered along the road to Plattsburgh, beyond which all is howling wilderness as far as to the valley of the Black river. Little dependence can, therefore, be placed on these regions for agricultural produce, although their forest and mineral wealth compensates in some measure for the sterility and ruggedness of their soil.

Plattsburgh is the port of entry of this district, although Whitehall is the larger commercial depot. The only railroad which touches it is that of Ogdensburg, crossing Missisquoi bay and the narrows of the lake at Rouse's Point, and opening, at the town of Ogdensburg, a perfect inland intercommunication between the great lakes and the Atlantic ocean, at Boston. It is on the water communications, therefore, afforded by the lake, that the population of this district for the most part rely for the prosecution of their commercial enterprises and

the transportation of their produce.

There are five daily steamers running during the season from Whitehall, touching at Burlington and Plattsburgh, for St. John, Canada East, and for St. Alban's Vermont.

The Canadian trade of this district during the years 1850 and 1851

was as follows:

Exports of domestic produce	1850. \$322,378 316,843	1851. \$375,549 373,453
Total exports	639,221 435,383	749,002 294,284
Total commerce	1,074,604 1,043,286	1,043,286
Decrease in 1851	31,318	

Years,	No.	Tons entered.	No.	Tons cleared.
1851	5 98	123,229	598	123,229
1850	788	120,294	754	116,931
	•	-		
Difference	190	2,935	156	6,298
	===			

The decrease of the year 1851, it will be observed, affects the number of entries and clearances only, the comparative tonnage being an increase on the preceding twelve months.

The tonnage enrolled in this district, June 30, 1851, was—steam, 917 tons; sail, 3,291 tons.

Canadian trade.

Imports in American vesse Exports in American vesse	\$1,019,039 24,246		
	Tonn	age.	
Inward.	Tons.	Outward.	Tons.
American, steam	90,436 8,139	American, steam sailing	
Total	98,571		98,571
British, steam sailing	3,899 20,759	British, steam	
	24,658		24,658
Duty collected on imports Do. do.	in Amer Britis	ican vesselsh vessels	\$46,639 5,210
Total duty			51,849
Imported from Canada in	America	n vessels	\$228,241
Do. do.		vessels	24,246
			252,487
Amount imported in bond.			27,994
Amount of free goods			13,802
Total			294,283
Value of domestic goods es	xported.		\$375,549
Foreign goods exported			\$267,587
Foreign goods entitled to d	lrawback		105,866
6			373,45 3

No. 3.—DISTRICT OF OSWEGATCHIE.

Port of entry, Ogdensburg; latitude 44° 41'; longitude 75° 32'; pop-

ulation in 1830, not defined; in 1840, 2,526; in 1850, 7,756.

This district extends along the southern shore of the St. Lawrence, from the point where the boundary line of New York and Canada strikes the great river—43°, 73° 20′—to Alexandria, nearly opposite to Gananoque, on the Canada side, and the thousand isles of the St. Lawrence. The extent of this coast line is about eighty miles, trending in a southwesterly direction; it includes the considerable commercial depot and improving town of Ogdensburg, beside the smaller ports of Massena, Louisville, Waddington, Morristown, and Hammond, and it has become the theatre of a very large and increasing trade with Canada, and coastwise, particularly since the opening of the Ogdensburg railroad.

This important line was opened from Ogdensburg to Rouse's Point, where it combines with the eastern and southeastern routes, in the autumn of 1850; and from this point passengers and freight crossing Lake Champlain have easy expedition, either to the New England States by railroad, or to New York, via Lake Champlain and the Hudson river, or by the new lines of railroad down the valley of the latter great thor-There being no line of transportation whatever through this district from the Canadas, except the above-mentioned road, and previous to the opening of that way none of any kind—the district itself being, moreover, a mere strip of ten miles' width between the river shore and the Adirondack highlands—the effect of this road has been very great on the general commercial prosperity, and particularly on that of Ogdensburg, which monopolizes the Canadian transportation business, for the other ports mentioned are merely river harbors, doing a small coasting business, and driving some small traffic with their meighbors across the water. In consequence of these advantages large quantities of freight find their way into this port from all parts of the upper lakes and of Canada, for transmission to various marts on the Atlantic seaboard; and large amounts of merchandise, both foreign and domestic, are thence distributed through the different lake ports, both of Canada and the United States, from New York and Boston.

The following statistics will show the comparative coasting trade of Ogdensburg in some of the principal articles during the past five years, the results for 1849 being made up only to the 1st of October of that

year.

Imports coastwise.

Articles.	1847.	1848.	1849.	1850.	1851.
Flour barrels.	5,000	4,500	3, 800	158, 600	375, 000
Whiskeydo	1, 217 3, 000	1, 157 2, 500	1, 800	452 2,612	1, 291 2, 887
Beefdo Sugarhogsheads.	325 300	375	300	2,758 37	6, 034 43
Pig iron tons Coal do Wheat bushels.	3,000	350 3, 054 25, 000	275 2,500 18,000	300 490 149, 310	100 371 377, 725
CorndoSaltbarrels.	3,000	4, 000 15, 000	3, 500 10, 000	31, 934 10, 369	82, 458 14, 287
Teachests	10,000 320	15, 000 320	10,000	78 Included in m	44
Tobacco boxes . Sundry merch'dise, value.	2,000	2,000 \$2,482,925	1, 200 \$2, 106, 450	\$1, 162, 668	\$426, 972

The above statistics clearly demonstrate that the opening of the railway has created a complete revolution in the trade of Ogdensburg, a large demand having suddenly sprung up for coastwise imports of produce, to be exported seaward by railroad, while the call for foreign merchandise, formerly imported coastwise for home consumption, has been entirely superseded, goods of that description being now largely introduced by railway from the seaboard, for distribution through Canada and all the lake regions.

By this change, the mercantile prosperity and activity of this town and district has, it will appear, been increased fifty-fold, and the trade matured from a mere home-consumption business to an immense forwarding, foreign importing, and domestic exporting traffic; nor, in view of the incalculable hourly increase of western productiveness and consumption, can any one pretend to assign any limits to the future im-

provement of this branch of commerce.

The coastwise exports during the same period, of a few leading articles, were as follows:

Articles.	1847.	1848.	1849.	1850.	1851.
Whiskey barrels.	142	120	140	408	135
Starchpounds.	193,600	180,000	190,000	5, 900	18,600
Ashes barrels .	3,7 58	3,400	3,800	4,544	615
Shingles M	6,669	4,000	3,000	4,841	1,757
Lumber M ft	7, 182	5,000	4,000	2,052	199
Pig irontons	311	250	100	660	770
Cheese pounds.	1, 099, 280	990,000	800,000	1, 332, 300	40, 200
Flour barrels.	3, 267	500	100	1, 158	129
Rye bushels.	5,688	5,000	3,000	420	1, 44
Woolpounds.	18,000	20, 510	10,000	28,000	27, 800
Hops bales	187	200	150	57	,
Sheep's peltsNo	20,000	20,000	15,000	140	70
Nailskegs.	, 000	25,000	23,000	796	6, 39

The estimated value of the imports and exports for the years above named, is as follows:

	1847.	1848.	1849.	1850.	1851.
Coastwise imports Coastwise exports Foreign imports Foreign exports	\$2,804,150 389,325	\$2,988,015 341,933 49,831 81,844	\$2, 482, 695 311, 084 48, 395 32, 685	\$2,463,648 359,933 205,815	\$2, 424, 145 918, 587 214, 520 618, 648
Total commerce	3, 193, 475	3, 461, 623	2,874,859	3, 029, 396	4, 175, 900

The report of inward and outward bound vessels is as below, for the last two years:

Years.	Number of entries.	Tons.	Men.	Number of clearances.	Tons.	Men.
1851 1850	1,002 669	351, 427 242, 780	19,538 12,464	973 655	359, 287 242, 931	19, 341 12, 218
Increase	333	108, 647	7,074	318	116, 356	7, 123

From the above figures it will be readily perceived, independent of the general increase of commerce in the district consequent on the opening of the railroads, that the returns for the years previous to 1850 are in round numbers, and are probably very far from accurate, while those for 1850 and 1851 are in detail, and the merchandise is valued at a very low rate; so much so, that if the valuation of assorted merchandise were made according to the rates adopted in other districts, it would raise the gross amount to a sum higher, by at least a million of dollars, than that exhibited above.

The tonnage enrolled and licensed in the district is 1,985 tons of steam, 576 tons of sail—employing 125 men. The original cost of the above tonnage was \$208,300.

-	Вкітівн.	Tons. Crew.	61,951 4,294	96,013 8,115	
ARD.		No.		390	
OUTW	OUTWARD	Crew.	7,924 242	11,226	
	AMERICAN,	Tons.	180,980	263,274	
		No.	413	583	
		Crew.	4,523	8,272	
	, British.	Tons.	63,441	97,619	
ARD.		No.	255	404	
INWARD.		Crew.	7,941 255	11,266 404	
:	AMERICAN,	Tons.	179,839	253,508	
		No.	414	598	
			1850. 5 414	1851 598	

Collector's Office, District of Oswegatchie, N. Y.,
Ogdensburg, December 31, 1851.

Canadian Trade in 1851.

Imports and exports in American vessels Do do British vessels		
Exported foreign goods entitled to drawback— In American vessels	\$74,367	
Goods not entitled to drawback		\$268,174 98,424
		366,598
Domestic produce and manufactures—		
In American vessels	52,369	
In British vessels	199,681	0.50
•		252,050
Total exports		618,648
Imports paying duty—		
		Duty collected.
In American vessels	\$1 8,30 5	\$3,732
In British vessels	63,727	13,742
On the sea	9,425	1,893
,	91,457	19,367
Produce imported in bond	115,286	
Free goods	7,775	
Total imports	214,518	

No. 4.—DISTRICT OF CAPE VINCENT.

Port of entry, Cape Vincent; latitude 44° 06′, longitude 76° 21′; population in 1830, not defined; in 1840, not defined; in 1850, 3,044.

This district, commencing at Alexandria, on the southwestern border of Oswegatchie, extends about eleven miles southwesterly up the St. Lawrence, to the outlet of Lake Ontario, and Black river bay, on which Sackett's Harbor is situated. Cape Vincent, owing to the sinuosities and irregularities of its shores, has a coast line of nearly thirty-eight miles, and embraces the shipping ports of Cape Vincent, Clayton, and Alexandria, which are for the most part mere stopping-places for the lake steamers plying between Montreal, Ogdensburg, and the ports of Lake Ontario, which touch at these landing-places to procure wood, vegetables, milk, and other necessaries. To this fact is owing the very considerable amount of tonnage entering and clearing from these little ports, though it is at once evident that no indication is thereby afforded of the actual business transacted in the district. It has some small trade with Canada, carried on principally in skiffs across the St. Lawrence and among the thousand islands; but, if t ere be any coasting traffic at all, it is so slender that no returns of it appear to have been, at any time, regularly kept.

Cape Vincent, the port of entry, is some twelve to thirteen miles

from Kingston, C. W.; the distance being about four miles over the main channel of the St. Lawrence from Kingston to Long Island, then between seven and eight miles across the island, and then a mile over the channel on the American side to Cape Vincent.

The imports from Canada, 1851	\$61,358 33,188	
Total Canadian commerce, 1851	94,546	
Imports from Canada, 1850		
Total Canadian commerce, 1850	120,040 94,546	
Decrease	25,494	

The Canadian commerce of this district previous to these years was of the following values:

Total Canad	ian	commerce of	1849	\$90,484
Do	do	do	1848	91,597

The enrolled tonnage of the district amounts to 2,496 tons, all sail.

Years.	Entries.	Tons.	Crew.	Clearances.	Tons.	Crew.
1851 1850	749 708	439, 930 329, 545	19, 207 14, 548	749 708	439, 930 329, 545	19, 207 14, 545
Increase	41	110, 385	4, 659	41	110, 385	4, 659

Canadian Trade.

Imports in American vesse	els\$61,3	58duty, \$1,3 70
Exports, domestic produce	and manufactures.	\$32,389

Tonnage inward.

In American vessels, 696 sail	.427,457
In British vessels, 53 sail	. 12,473
Same outward.	

No. 5.—District of Sackett's Harbor.

Port of entry, Sackett's Harbor; latitude 43° 55', longitude 75° 57';

population of township in 1850, 4,136.

This district is composed of that portion of the coast of Lake Ontario which runs almost in a due southerly direction from Tibbits' Point, round Chaument bay, Black river, and Henderson's bay, terminating at Stony Point, and embracing a coast line estimated at one hundred miles, following the sinussities of its very irregular and deeply indented

shores. It includes the shipping places of Three-Mile bay, Chaument bay, Point Peninsula, Dexter, Sackett's Harbor, and Henderson.

Sackett's Harbor, the principal commercial place and port of entry of the district, is situated on the southwest side of a deep inlet known as Black River bay, at about eight miles distance from the lake. Its bay and harbor are well situated for shelter and defence. The harbor is by far the best on Lake Ontario for ship-building, and as a naval and commercial depôt. A crescent of land stretches off from the lower part of the village, forming an inner and outer harbor. The latter has a depth of water sufficient for the largest ships-of-war within two fathoms of the shore. The same depth of water extends to Black river, where there is another excellent position for ship-building.

The first settlement of this place was made in 1801; it advanced little until the commencement of the last English war, when it became a considerable naval and military depôt; but, since the promulgation of peace in 1814, it has made little comparative improvement, other points possessing superior advantages of position as regards artificial routes, by railroads and canals, having diverted from it a portion of its business, although it still maintains its commercial character. jacent country is a fine agricultural region, and its abundant waterpower renders it well adapted to the growth of manufacturing enterprise, while Watertown, a few miles inland, is a flourishing town, well situated on the Black river. Still, in spite of these advantages, the commerce of Sackett's Harbor has been on the decline for some years; whether on account of the exhaustion of lumber resources, or the diversion of supplies for the inland home consumption, and of agricultural produce for export, from the coast trade to canal and railroad transportation, does not sufficiently appear. At all events, the declared value of the commerce of the district has materially declined, as will be seen from the following table, since 1846.

The other small towns, mentioned above, are used to a trifling extent as landing-places for imported merchandise, and for shipment of produce, by the surrounding inhabitants, to the extent of their own wants and conveniences, but not in such amounts as to render them worthy of any notice as commercial depôts.

	Declared values	Declared values	Declared values
	for 1846.	for 1847.	for 1851.
Coastwise imports	\$1,550,909	\$1,257,823	\$497,809
	1,851	3,891	56,118
	1,106,986	841,478	303,258
Total	2,735,091	2,141,445	21,980 879,165

Some portion of the above deterioration may be, perhaps, ascribed to a discrepancy in the valuation of articles; but it is hardly probable that the result, as a whole, can be attributed to such a cause; nor is it

necessary to seek far for reasons, since the experience of every day teaches us that the places which possess the greatest facilities of transmission and transportation of produce and merchandise, and the most numerous inlets and outlets for articles of commerce in the shape of internal improvements and intercommunications, will necessarily attack and take at disadvantage those which rely solely on external trade.

It is not to be doubted, therefore, that Ogdensburg and Oswego have attacked Sackett's Harbor, and diverted from it a portion of its coastwise traffic; while it is as certain that some of the agricultural produce which formerly sought a market viâ the lakes, now seeks the

same ultimate destination inland, viâ canal and railroad.

Such are the revolutions, in some sort, of commerce, and such the progress of the times; the result being, that those places which are content to be stationary, and do not endeavor to keep up with the movement, enterprise, and energy of the times, must needs retrograde; nor can any natural advantages insure to them a long monopoly of prosperity and success.

The following table will be sufficient to convey some idea as to the operation of the changes alluded to above, and the class of articles

affected thereby:

Exports coastwise for 1847 and 1851.

Articles.	1847.	1851.
Lumberthousand feet.	4,406	2,896
Stavesthousand	919	25
Shinglesdo	371	57
Ashesbarrels	420	366
Porkdo	339	145
Oatsbushels	37,583	34,068
Barleydodo.	80,678	62,895
Corn do.	41,624	42,581
Wheatdodo	4,926	5,402
Peas and beansdo	3,553	7,173
Potatoesdo	1,850	970
Flour barrels	788	169
Indian mealdo	4,141	
Butter pounds	850,000	161,500
Cheesedo	9,706	1,344
Wooldodo	64,800	11,400
Pig irontons	2,021	732
Leatherpounds	17,600	1,500
Domestic spiritsgallons	36,240	63,240
Do. woollens yards	56,250	•
Do. cottons yards	334,000	
Total estimated value	\$841,478	\$303,258

For the same years the importations of some few articles of coast-wise trade were as follows; and beyond this there is no more to be stated concerning this district, unless it be to point out that in 1847 the exports to Canada consisted of barley, oats, corn, vegetables, cheese, machinery, and manufactures; while in 1850 and 1851, flour, wheat, and vegetables were imported from that country, together with animals. The Canadian trade has augmented somewhat, while the coasting trade has decreased.

Coastwise Importations.

Articles.		1847.	1851.
Salt. Flour. Wheat. Cotton. Wool. Gypsum Coal.	barrelsdodobushelsdododododododo	1,369 11,984 1,166 15,265 351 231 430 340 25,150	1,501 7,851 1,630 37,890 147 331 1,280 33,960

The steam tonnage enrolled in the district, June 30, 1851, was 343 tons, and sail tonnage 6,768.

Years.	Entries.	Tons.	Črews.	Clearan- ces.	Tons.	Crews.
1851 1850	684 737	348,438 328,126	14,706 13,624	679 751	347,394 332,433	14,650 13,670
Difference.	53	20,312	1,082	72	14,961	975

Canadian Trade in 1851.

Imports-American v	essels	\$56,118:	duty.	\$16,399
Exports-American v	ressels	\$21,980		,

Entrances and Clearances, District of Sackett's Harbor, New York, during the year 1851.

	No. vessels.	Tons.		Men.	Boys.
FOREIGN TRADE.					
Entered—American vessels.	200	163,816	56	6,835	349
Britishdo	31	2,994	00	193	
Cleared—American vessels.	207	162,760	91	6,834	340
Britishdo	31	2,994	00	193	
COASTING TRADE.					
Entered—Number of vessels.	453	181,626	61	6,982	347
Cleared—dodo	441	181,639	45	6,936	347

No. 6.—DISTRICT OF OSWEGO.

Port of entry, Oswego; latitude 43° 25', longitude 76° 37'; pop-

ulation in 1830, 2,703; in 1840, 4,665; in 1850, 12,205.

The district of Oswego has eighty miles of coast-line, from Stony Point to the western shore of Sodus bay, and embraces the ports of Texas, Salmon river, or Port Ontario; Sandy Creek, Oswego, Little Sodus, and Sodus Point. None of these ports, with the exception of Oswego, although they are all-important to the accommodation of their own immediate neighborhoods, for the shipment of produce and the introduction of merchandise of all kinds, can be said to be valuable in regard to the facilitation of trade and the centralization of commerce, as connected with distant portions of the country.

Possessing advantages, both for coastwise and Canadian commerce, rarely equalled and never surpassed, this port of entry has by rapid strides, within the last few years, attained an importance among the great business marts of the lakes, which guaranties an indefinite increase of its commercial and maritime power, until the whole territories of the British and American northwest shall have become densely populated; their fertile soil advanced to the highest state of cultivation; the fisheries of their lakes prosecuted to their utmost capacity; and their unfathomable mineral resources penetrated and developed, so far

as science and enterprise may effect.

These advantages are of a threefold nature. First, an easy and rapid communication, both by canal and railway, with New York and Boston, viâ Albany, and by lake, canal, and railway with Ogdensburg; secondly, a harbor which could at a small expense be rendered perfectly secure and accessible, at the nearest point on the lakes to tidewater; and, thirdly, a direct communication by lake with the most thickly settled portions of Canada, and by lake and the Welland canal with the whole western and northwestern lake-country.

The city of Oswego, port of entry, and capital of Oswego county, New York, lies 160 miles WNW. of Albany, 373 from Washington; was incorporated in 1828; and is situate on both sides of the Oswego river, connected by a bridge 700 feet long. It extends to the lake shore.

The harbor, next to that of Sackett's Harbor, is the best on the southern side of Lake Ontario. It is formed by a pier or mole of wood, filled with stone, 1,259 feet long on the west side of the harbor, and 200 feet on the east side, with an entrance between them. The water within the pier has a depth of from 12 to 20 feet. The cost of this work was \$93,000. It is among the earliest improvements of lake harbors undertaken by the government, having been commenced in 1827.

The protection anticipated from these works has not fallen short of what was expected; but the piers, being built of cribs of timber, filled with stone, began to decay so early as 1833. Some steps were taken in the year 1837 to replace the old work with permanent structures of masonry, but these were soon discontinued, and what remains is rapidly going to ruin, with the exception of 500 feet of the west pier, which is well built of stone and is in good condition.

It is calculated that for the moderate sum of \$207,371 these works can be secured and improved in the following manner, so as to render the harbor perfectly secure and of easy access to the largest class of

vessels in use on the lakes:

1. By rebuilding the whole pier-line in substantial solid masonry.

2. By enlarging and strengthening the west, or light-house, pier-head,

and defending it by a five-gun battery.

3. By removing the gravel and deposites within the piers, which have become a barrier to the entrance of the inner and outer harbors. It is an original deposite by the *littoral* currents of the lake, not caused or increased by the piers. Once removed, it can never return while the piers stand.

The principal harbor-light is on the pier-head on the west side of the entrance. The tonnage of the port in 1840 was 8,346 tons; by comparing which with the present tonnage, as given below, the general increase of the port will be readily seen.

The population of the town is about 13,000 persons.

The Oswego canal, formed principally by improvement of the natural course of the river, passes through the great salt districts of the State at Salina and Liverpool, to Syracuse, where it connects with the Erie canal from Albany to Buffalo. Oswego is, therefore, the great outlet for the western exportation of domestic salt. The Syracuse and Oswego railway connects the city with Syracuse, and thence with Albany, Buffalo, New York, and Boston. It is distant from Rochester, by lake, 55 miles, and from Sackett's Harbor 40 miles. The rapid increase of the commerce of Oswego is aptly illustrated by the following table, exhibiting the traffic in some of the leading articles of importation by lake during three years:

Articles.	1849.	1850.	1851.
Flourbarrels	317,758	302,577	389,929
Wheatbushels	3,615,677	3,847,384	4,231,899
Corn"	383,230	426,121	1,251,500
Barley "	65,286	120,652	194,858
Rye"	31,426	86,439	106,518
Oats"	133,697	113,463	175,984
Peas and beans "	24,012	25,068	63,634
Porkbarrels	35,098	26,262	27,950
Beef"	20,375	6,789	15,854
Ashes"	10,872	11,435	4,479
Lumberfeet	51,101,432	67,586,985	83,823,417

The annexed figures will show what portions of some of the above articles were received from Canada during the same period:

1849.	1850.	1851.
198,623 623,920	260,874 1.094.444	259,875 670,202
16,044	7,499 90,156	53,950 78,771
16,322	$22,380 \\ 10,372$	60,335 11,496
44,137,287	50,685,682 1,580	62,527,843 584
115,759	$225,087 \\ 77,941$	75,000 82,908
	623,920 16,044 55,700 16,322 6,648 44,137,287 2,235	$\begin{array}{c cccc} 623,920 & 1,094,444 \\ 16,044 & 7,499 \\ 55,700 & 90,156 \\ 16,322 & 22,380 \\ 6,648 & 10,372 \\ 44,137,287 & 50,685,682 \\ 2,235 & 1,580 \\ 115,759 & 225,087 \\ \end{array}$

Of the above amount of 4,231,899 bushels of wheat, only 1,676,213 were forwarded by canal; and, while there were received by lake only 389,929 barrels of flour, there were forwarded by canal 888,131 barrels, showing that of the remaining 2,555,686 bushels of wheat there were manufactured by the Oswego mills and sent forward by canal, 498,200 barrels of flour, while probably 13,000 barrels of flour in addition were absorbed by local consumption.

According to this calculation, the capacity of the Oswego flouring mills cannot fall short of 511,000 barrels of flour per annum. The value of the Canadian commerce of this district is estimated, for 1851, as follows:

Imports paying duty. Imports bonded and free.	\$435,153 [©] 1,349,259
-	

Exports of foreign merchandise \$915,900 Exports of domestic merchandise 2,291,911	,
Total exports to Canada	\$3,207,811
Total foreign commerce	. 4,992,223

This, it should be observed, amounts to very nearly one-half the entire Canadian commerce with the United States. Owing to the large proportion of Canadian produce entered in bond, the amount of duties collected is comparatively small, when contrasted with that received in other districts; but this fact renders the trade none the less valuable to Oswego.

The whole amount of duties collected in Oswego, in 1851, was \$89,760, while there was assessed and secured on the property entered in bond the further sum of \$226,937, making a total of \$356,697 duties assessed on property entered at the port of Oswego during the year.

The coastwise imports at the port of Oswego, for the year 1851, amounted to	\$6,083,036
Coastwise exports of 1851	11,471,071
Total coastwise	
Total 1851	22,546,330

The enrolled and licensed tonnage of the district amounts to 21,942 tons sail, and 4,381 tons steam, being an aggregate of 26,323 tons.

The whole number of entrances and clearances for the year are as below:

Years.	Entrances.	Tons.	Men.	Clearances.	Tons.	Men
1851 1850	3, 318 3, 004	721, 383 656, 406	28, 157 24, 032	3, 198 2, 771	685, 7 93 604, 1 59	26, 029 23, 548
Increase	314	64, 997	4, 125	427	81, 634	2, 481

The enrolled tonnage for 1840, was 8,346; for 1846, 15,513; for 1847, 18,460; for 1848, 17,391; and for 1851, 26,323 tons.

The value of the commerce of Oswego, for several years, has been declared as follows: in 1846, \$10,502,980; in 1847, \$18,067,819; and in 1851, \$22,546,330.

CANADIAN TRADE IN 1851.

Imports.

In American vessels—			
In bond		\$197,040	•
Paying duty			
Free		9,513	3
In British vessels—			- \$380,76 5
In bond		1,137,309	3
Paying duty			
Free			
			- 1,403,647
Total imports	• • • • • • • • • • • • • • • • • • • •		1,784,412
Exports fore	eign produce	e and manufactures.	z.
F	Entitled to drawb	ack. Duty collected. No	ot entitled to drawback.
In American vessels	\$90,532	\$36,381	\$287,288
In British vessels	170,603	53,379	367,477
	261,135	89,760	* 654,765
* In this are included—			
Tea		825,606 pounds, v	a'ue \$423,057
Coffee		359,512 pounds, v	
			460,277
Exports dom	estic produc	e and manufactures	•
In American vessels			\$1,190,048
In British vessels			
			2,291,911

Imports at the District of Oswego, coastwise, during the year ending December 31, 1851.

Articles.	Quantity.	Value.
Fishbarrels.	335	\$2,345
Ashes—pot and pearlcasks.	3,895	97,375
Lumberfeet	21,295,574	213,000
Staves and heading	1,799	8,995
LathsM.	1,179	4,716
Shingles	1,423	3,557
Wheatbushels.	3,561,697	2,849,358
Flour barrels.	130,054	520,216
Barleybushels.	171,347	102,808
Ryedo	52,568	26,284
Oatsdo	97,213	29,164
Corndo	1,251,306	625,653
Potatoesdo	4,874	2,437
Peas and beansdo	3,202	2,402
Applesbarrels.	3,327	4,159
Peachesbaskets.	451	564
Butter packages.	4,029	48,348
Cheese	3,888	38,880
Porkbarrels.	27,950	419,250
Hams and baconcasks.	10,666	175,000
Lardpackages.	22,208	266,496
Beefbarrels.	15,940	159,400
Tallowdo	447	9,834
Hidesnumber.	7,090	21,270
Sheep-peltsbundles.	272	20,400
Woolpounds.	42,400	12,720
Eggsbarrels.	702	7,020
Beeswaxdo	67	2,680
Horsesnumber.	50	5,000
Cattledo	15	400
Grass-seed	406	4,872
Hempbales.	266	7,980
Hopsdo	377	18,850
Maltbushels.	7,955	4,773
Tobaccohhds.	282	25,380
Broom-corn bales.	300	4,500
Whiskeybarrels.	2,619	26,190
Ale and porterdo	200	1,200
Dry goodsboxes.	251	25,100
Furniture packages.	245	12,250
Paper and booksbundles.	355	38,300
Leather rolls	1,108	44,320
Paint barrels.	1,275	8,928
Salæratuscasks.	132	1,960

Imports, coastwise, at the District of Oswego-Continued.

Articles.	Quantity.	Value.
Glassboxes.	2,305	\$5,763
Starchdo	303	606
Oil caketons.	633	25,320
Lard oilbarrels.	2,433	72,990
Candlesboxes.	685	2,740
Iron (pig and scrap)tons.	550	16,500
Nailskegs.	279	1,116
Grindstonesnumber.	1,300	6,500
Coaltons.	799	3,196
Lime-stonedo	640	1,280
Corn-broomsdozen.	126	252
Platform scalesnumber.	. 300	6,000
Sundries.		36,532
Total.		6,083,036

Exports, coastwise, from the District of Oswego, during the year ending December 31, 1851.

Articles.		Quantity.	Value.
Fish			\$70,752
Oil		525	13,125
Lumber	feet.	148,300	1,668
Flour	barrels.	2,727	10,908
Wheat	oushels.	2,500	2,000
Corn		7,500	3,750
Apples		6,616	8,317
Rice		603	15,07 5
Horses		150	12,000
Pork		595	8,925
Hams and bacon	.casks.	1,014	20,280
Lardpa		144	1,296
Wool		15,495	3,409
Hides and skins		100,581	12,189
Cotton		111,873	10,069
Tobacco	.do	97,125	11,655
Spirits		650	26,100
Spirits of turpentine		1,350	20,250
Candles		550	2,200
Starch		195,285	11,717

7

Exports, coastwise, from the District of Oswego-Continued.

Articles.	Quantity.	Value.
Furniture		\$29,250
Pianosnumber	43	8,900
Wagons and carriagesdo	98	13,360
Tobaccoboxes.	850	34,000
Snuffjars.	475	1,900
Ground gypsumbarrels.	5,498	4,811
Water limedo	16,101	16,101
Salt	376,601	328,941
Leatherpounds.	150,000	30,000
70 . 1 1		30,000
		16,000
Drugs, &c		16,000
Glass, glass-ware, and earthenware		147,139
Railroad irontons.	43,429	1,737,160
Bar and other irondo	3,117	249,360
Pig and scrap irondo	1,267	37,997
Steelpounds.	415,400	62,310
Nails and spikesdo	3,593,631	143,745
Stoves and castingstons.	1,376	11,080
Hardware		16,300
Tinboxes.	1,050	6,300
Sugarpounds.	9,961,000	677,270
Molasses		98,112
Teachests.	1,440	43,200
Coffeepounds.	3,380,799	338,080
Coaltons.	3,213	16,065
Books and paper		18,500
Sundries.		7,073,525
Total		11,471,071

No. 7.—DISTRICT OF GENESEE.

Port of entry, Rochester; latitude 43° 08′, longitude 77° 51′; population in 1830, 9,207; in 1840, 20,191; in 1850, 36,403.

The Genesee district has a very limited commerce except with Canada; with eighty miles of coast it has but one shipping place, which is situated at the mouth of the Genesee river, at a distance of about three miles from Rochester city. The passage of the Erie canal, and a parallel line of railroad through the entire length of the district, but a few miles distant from the coast, offering better facilities for the transportation of passengers and merchandise, whether eastward or westward, than the lake can afford, confines the commerce of the port entirely to Canadian trade. Rochester is well situated on the falls of the

Genesee, which are three in number, with an aggregate descent of 268 feet within the city limits, affording almost unbounded resources in the shape of water-power, applicable to most manufacturing purposes, and applied largely to the flouring business; the greater part of the wheat shipped by canal from Buffalo being floured and reshipped by canal to its ulterior destination.

It occupies both sides of the river, and had a population, in 1820, of 1,502 individuals. In 1830 it had increased to 9,269; in 1840 to 20,191, and in 1850 to 36,403. In 1812 it was laid out as a village, and incorporated in 1817. It was chartered as a city in 1834, and the city limits now occupy an area of 4,324 acres, well laid out with a good regard to regularity. Rochester has three bridges across the Genesee river, besides a fine aqueduct over which the canal passes, traversing the heart of the city, and adding much to its prosperity, as well as to the rapidity of its growth.

The Canadian commerce of this district was, for

1851. Imports	\$49,040
Exports	913,654
Total	962,694
1850. Imports	\$95,283
Exports	326,899
	422,182
In 1851	\$962,694
1850.	422,182
Increase	540,512
The amount of tonnage entered and alegaed from this port	

The amount of tonnage entered and cleared from this port was:

Year.	Entrances.	Tons.	Men.	Clearances.	Tons.	Men.
1851	487	212,794	7,997	487	212,794	7,997

There are enrolled in this district 429 tons of steam and 57 of sail shipping.

Exported to Canada.

In British vessels, foreign goods	445,967
In British vessels, foreign goods entitled to drawback	131,979

913,654

Imported from Canada.

		Duty collected.
In American vessels	\$8,456	\$1,765
In British vessels	40,584	8,773
	49,040	10,538

No. 8.—DISTRICT OF NIAGARA.

Port of entry, Lewiston; latitude 43° 09′, longitude 79° 07′; pop-

ulation in 1830, 1,528; in 1840, 2,533; in 1850, 2,924.

This district embraces all the lake coast of Ontario, from the Oak Orchard creek to the mouth of the Niagara, and thence up that river to the falls on the American side, and includes the ports of Oak Orchard Creek, Olcott, and Wilson, on the lake shore, Lewiston and Youngstown on the river, and an office of customs at the suspension bridge which crosses the Niagara, at three miles' distance below the falls.

There is a very considerable trade from Buffalo passing through this district to Canada, across the suspension bridge; especially in the winter season, at which time it is by far the better route, on account of the railroad communication from the falls, which were, in former years,

generally considered as the head of navigation.

At that time the trade of the Niagara district was of the greatest importance; but since art and science have opened new channels of communication on either side of that great natural obstacle, the field of its commercial operations has been narrowed down to the supply of the

local wants of the circumjacent country.

Lewiston, the port of entry and principal place of business, as well as the largest town of the district, is situated on the east side of the Niagara river, seven miles above its mouth, opposite to Queenstown, Canada, with which it is connected by a ferry. It has a population of about 3,000 persons, and communicates with Buffalo and Lockport by railways, and with Hamilton, Toronto, Oswego, and Ogdensburg, during the summer season, by daily steamers. It carries on some valuable traffic with Canada.

The district is, as yet, rather barren of internal improvements, having for their object the connecting the circumjacent regions with the lake and river; for there is but one railway passing through it, which has Buffalo and Lockport for its respective termini. One or two other roads, however, are in process of construction, designed to connect Rochester and Canandaigua with the great western railway through Canada, as it is intended, by means of a second suspension bridge across the Niagara, near Lewiston.

It is, however, a question with many minds whether it will be possible to construct a bridge upon this principle sufficiently steady and firm to admit of the passage of a locomotive with a heavy train. But, be this as it may, there will be no difficulty, it is probable, in making the transit in single cars, by horse-power. It seems somewhat remarkable that, while the success of railroad communication by means of sus-

pension is so entirely problematical, no attempt should have been made, or even proposed, to throw a permanent arched bridge across the river near the mouth of the Chippewa creek, which could be effected, one would imagine, by means of stone piers and iron spans, without great risk or difficulty. Should the suspension plan, however, prove unfeasible, it is probable that the iron tubular bridge system, so triumphantly established in Great Britain on the Conway and the Menai straits, will be adopted. So that it may be almost confidently predicted that the Niagara district will very shortly be brought into the line of a great direct eastern and western thoroughfare, which will add greatly to its Canadian commerce overland, and materially increase the size and progress of Buffalo.

In former days, all freight coming up Lake Ontario, destined for consumption, was transported by land from Lewiston across the portage around the falls of the Niagara. The noble river itself affords an excellent harbor at Lewiston, being far below the rapids and broken water, which extend to some distance downward from the whirlpool. Youngstown, a few miles lower down the stream, is also a good landing place for steamers.

A line of fine mail-steamers plies regularly between these places and Ogdensburg and Montreal daily. The other ports above mentioned are mere local places for shipment of domestic country produce, and the receipt of merchandise. No definite returns have been made of their business, so that it is not possible to enter upon this branch of the

subject in detail.

The returns of the commerce of this district prove it to be as follows:

Imports from Canada during the year 1851, Imports coastwise " " "	\$103,985 236,684	
Total imports	340,669	\$340,669
Exports to Canada, foreign	\$150,023 426,023 433,634	
Total exports	1,019,418	1,019,418
Grand total		1,360,087
Total foreign commerce		\$689,769 670,318
Total commerce of the district		1,360,087

The tonnage emp	loved in	this e	district f	or the	following years,	was:
-----------------	----------	--------	------------	--------	------------------	------

Years.	Entrances.	Tons.	Men.	Clearances.	Tons.	Men.
1851 1850	990 903	427,968 358,048	21,188 16,950	990 903	427,968 358,048	21,188 16,950
Increase	87	69,920	4,238	87	69,920	4,238

The enrolled and licensed tonnage of this district for 1851, was:

SteamSail		
Total tonnage	605	44

The increase in this district will be seen by a glance at the following tables:

Enrolled	shipping	for the	year	1838119	tons.
				1843112	
46	66	66	"	1848730	66
66	66	"	66	1851605	"

The foreign commerce for the years 1847, 1850, and 1851, compare as follows:

	1847.	1850.	1851.
Exports, domestic	\$166 541	\$260,074	\$426,761
" foreign) &IOO'OAI	65,464	159,023
Imports from Canada		353,954	103,985
	184,556	679,492	689,767
	104,000	=====	======

Canadian trade in 1851.

:	rmbores.	Duty concesses.
In American vessels	\$42,115	\$7,854
In British vessels	61,870	12,102
	103,985	19,957

Exports-foreign goods.

Entitled to drawback.	Not entitled to drawback.
-----------------------	---------------------------

In American vessels		\$32,052 28,007
	99,964	60,059

Exports-domestic produce and manufacture.

In American vessels	\$212,924 213,837
	426,761
Total exports and imports in American vessels	\$311,813 378,956
	690,769

Statement of men and tonnage employed in the Canadian trade with this district.

American steamboats	.2,968 66	men.	424 boys. 1 boy.
Total Americans in foreign trade.	.3,034	"	425 "
Foreign steam vessels	.9,209 . 130	men.	491 boys. 54 "
Total in foreign vessels	.9,339	66	545 "

Statement of crews on board coasting vessels.

Steam vessels		Tons. 203,120 1,695	Men. 6,930 80	Boys. 818 17
Total	301	204,815	7,010	835

No. 9.—DISTRICT OF BUFFALO CREEK.

Port of entry, Buffalo; latitude 42° 53′, longitude 78° 55′; population in 1830, 8,668; in 1840, 18,213; in 1850, 42,261.

This district has a coast-line one hundred miles in extent, commencing at the great falls on the Niagara river, and thence extends southward and westward, embracing the ports of Schlosser, Tonawanda, and Black Rock, on the river; Buffalo, on Buffalo Creek, at the foot of Lake Erie; and Cattaraugus Creek, Silver Creek, Dunkirk, Van Buren harbor, and Barcelona, on the southern shore of Lake Erie; being all the ports between the Falls of Niagara and the eastern State line of Pennsylvania.

"Buffalo Creek" has a commerce larger than that of any other lake district in the United States, amounting to nearly one-third of the whole declared value of the lake trade, and showing the astonishing increase, in the single year 1851, of \$19,087,832. This increase may partly be attributed to the opening, in May, 1851, of a new avenue of trade to one point of the district, in that noble work, the New York and Erie railroad. The commencement of operations on this route necessarily increased the competition for the "trade of the lakes;" and, while an excellent share of business has fallen to the lot of the new enterprise, it would appear that the old-established lines have been gainers rather

than losers by its opening.

Within the boundaries of this district, and, in some sort, all serving as the feeders and receivers of its lake commerce, are the terminations of the following great avenues to the seaboard: the Albany and Buffalo railway, the New York City and Buffalo railway, the New York City, Corning, and Buffalo railway, the Buffalo, Canandaigua, and New York City railway, the Buffalo and Niagara Falls railway, the Buffalo and State Line railway, extending to Erie, Pa., through Dunkirk; the New York and Erie railway, extending from the port of New York to Lake Erie at Dunkirk; and last, not least, the Erie canal, intercommunicating between the lakes and the Atlantic tide-water.

The three Buffalo and New York roads, and the State Line road, have been put into operation since the commencement of the present year—1852—and cannot, of course, be taken into account as operating

upon the commerce of this district previous to that date.

Of the ports above named, as being embraced in this district, the city of Buffalo is by far the most important; of the others, Dunkirk and Tonawanda, only, have any actual claims to consideration. Schlosser, being situated three miles only above the falls, where the current is already so rapid as to be almost dangerous, enjoys few commercial advantages, and is remarkable only as a landing-place for pleasure parties, and the seat of a small Canadian trade, carried on by means of skiffs across the river.

The Niagara, to this point, is navigable for steamers and other vessels of the largest lake-class; but, the channel being difficult and the current perilously strong, vessels of any magnitude rarely venture themselves so near the falls. The Canadian port of Chippewa is nearly opposite this point; and during the summer season, a small steamer plies regularly twice a day between Chippewa and Buffalo, entering the Niagara from the Chippewa creek, by means of a cut, and thence

proceeding up the river to the Buffalo harbor.

Tonawanda is more eligibly situated for trade, on the Tonawanda creek—a fine navigable stream—the Niagara, and the Eric canal; the river and creek forming an excellent harbor. It is twelve miles north from Buffalo, on the canal; and, owing to its facilities for the transhipment of produce saving twelve miles' tolls, its business has increased rapidly during the last three years. This business is principally transacted by Buffalo houses, and the commercial transactions of Tonawanda are, for the most part, made in the Buffalo markets, to which easy access is had by means of the Buffalo and Niagara Falls railway.

The commerce of this port in 1850 was valued at \$1,205,494, and in 1851 at no less than \$3,782,086, consisting of \$1,692,423 exports by

lake, and \$2,089,663 imports; showing an aggregate increase, over the value of the business of 1850, of \$2,576,592.

Black Rock, the next port in order, is similar in situation to the last described; being situate on the Niagara river and Erie canal, only two miles distant from Buffalo.

The returns of the trade and commerce of the lakes at this point are usually included, by the collector, with those of Buffalo. In 1850 and 1851, they were, however, made distinct, and are as follows: in 1850, \$1,947,693; in 1851, \$2,349,334; showing an increase on the year of \$401,641. The principal commerce of Black Rock consists in a traffic carried on with Canada, by means of a ferry, which plies constantly between the opposite banks of the river, and in the manufacture of flour, for which purpose several mills have been established at this point.

Silver creek, Cattaraugus creek, Van Buren harbor, and Barcelona, are, each of them, convenient landing-places for supplies, and for the shipping of the produce of the neighborhood; but the value of their commerce has not been made up or returned, as the small-class vessels, which ply in the trade between Buffalo and these ports, rarely extend their trips beyond the limits of the district, in which case they are not required to report their cargoes at the custom-house. Their imports consist of all kinds of merchandise, and their exports of butter, cheese, pork, wool, lumber, and vegetables, the country behind and adjacent to them being one of the richest and most fertile portions of the whole State of New York.

Dunkirk is situate on Lake Erie, about 45 miles west of Buffalo, with which it is connected by railway. It has a fine harbor, with an easy access for vessels of light draught of water, and communicates with New York by the Erie railroad, 464 miles in length. There are some slight obstructions at the harbor mouth, as is the case with most of the lake ports, which if removed, would make navigation perfectly free for vessels of light draught; but the bottom being of rock, it cannot readily be deepened.

The commerce of Dunkirk, which previously was merely nominal, amounted in 1851, after the opening of the Erie railway, to the sum of \$9,394,780, being of exports \$4,000,000, of imports \$5,394,780. The Buffalo and State Line railway, which connects that city with Dunkirk, also connects it with Erie, Pa.

The city of Buffalo, the port of entry of this district, had a population in 1810, of 1,508 persons; in 1820, of 2,095; in 1830, of 8,668; in 1840, of 18,213; and in 1850, of 42,261; showing an increase of 113 per cent. from 1830 to 1840, and of 132 per cent. from 1840 to 1850. This would lead to the conclusion, on the average rate of increase on the last ten years, that on the 1st of January, 1852, its population did not fall far short of 50,478 persons.

Buffalo occupies a commanding business situation at the western terminus of the Erie canal and the eastern terminus of Lake Erie, constituting, as it were, the great natural gateway between the marts of the East and the producing regions of the West, for the passage of the lake commerce. It is distant from Albany, on a straight line, 288 miles—by canal 363, and by railroad 325. From Rochester, 73 miles; from Niagara Falls 22, SSE.; from Cleveland 203, ENE.; from

Detroit 290, E. by N.; from Mackinaw 627, SE.; from Green Bay 807, ESE.; from Montreal, Canada East, 427, SW.; and from Wash-

ington, D. C., 381, NW.

The harbor of Buffalo is constituted by the mouth of Buffalo creek, which has twelve to fourteen feet of water for the distance of a mile from its mouth, with an average width of two hundred feet; and is protected by a fine, substantial stone pier and sea-wall jutting out into the lake, at the end of which there is a handsome light-house twenty feet in diameter, by forty-six feet in height; there is, however, a bar at the mouth preventing the access of any vessels drawing above ten feet of A ship-canal seven hundred yards long, eighty feet wide, and thirteen deep, has been constructed into the place as a further accommodation for vessels and for their security when the ice & running; yet the harbor, which is perfectly easy of access in all weathers, is very far from being adequate to the commerce of the place, and is often so much obstructed by small craft and canal-boats, especially when forced in suddenly by stress of weather, that ingress or egress is a matter not easily or rapidly effected. The extension of the Erie canal a mile to the eastward of its original terminus, and the construction of side-cuts into it for the refuge of boats, will do something to relieve this pressure; and much has been effected by the enterprise of the city authorities, who have already expended large sums in the excavation of ship-canals inside the sea-wall, on which warehouses for the storing of goods and facilitating the transhipment of merchandise are in progress of erection.

Two very large canal basins are also in progress, under the auspices of the State, for the better and safer accommodation of canal-boats. This will tend to attract them from the main harbor, and will materially increase its capacity for lake shipping. One of the above named basins is being constructed near the mouth of the harbor, and the other something more than a mile distant, easterly. The two, being in the immediate vicinity of the creek and communicating with it, and also with each other by canal, will afford ample facilities for transhipment to

both sides of the city.

More than this, however, is required, to meet the demands of the large and daily increasing commerce of the place, and it is contemplated to open a new channel from the lake to the creek, at above a mile's distance from its mouth, across the isthmus, which is not above two hundred and fifty yards in width; and this improvement, with the erection of a new breakwater, would render it sufficiently capacious for the computed increase of shipping for many years to come.

Buffalo is a handsome and well built city, with streets, for the most part, rectangular and rectilinear, and many handsome buildings. It is the terminus of that stupendous State work, the Erie canal; of three lines of railway connecting it directly with New York; and of one communicating, through Albany, with both the cities of New York and Boston. It is also the eastern terminus of the Buffalo and State Line railway, which is destined to extend westward, by means of the south shore railways, to Toledo, Detroit, and Chicago. A railroad is also projected hence to Brantford, in Canada West, which will open to the city the whole trade of the rich agricultural valley of the Grand river, with the adjacent lumbering districts, and is destined to connect with

the great western road, and thence, via Detroit, with all the West, and by Lake Huron with the mineral regions of Lake Superior. It has a dry-dock of sufficient capacity to admit a steamer of sixteen hundred tons burden, and three hundred and twenty feet length, with a marine railway to facilitate the hauling out and repairing of vessels. There is also near the same ship-yard in which these are to be found, a large derrick for the handling of boilers and heavy machinery. In short, it appears that this city is resolved to keep fully abreast with the progress of the times, and not to lose the start which she took by force of her natural advantages, through any want of energy or exertion.

As being the oldest port on Lake Erie, and having taken, and thus far held, the lead in the amount and value of her lake commerce, the commercial returns of Buffalo are fuller than those of most other ports; and as the history of her commercial progress is little less than the history of the rise and advancement of all the commerce west of it, no apology will be necessary for entering somewhat fully into the history of the lake commerce of Buffalo, and its details, at this time.

This commerce dates its actual commencement from the year 1825, the year in which the canal was finished and opened, so as to connect the waters of Lake Erie with the Atlantic; though the first craft which navigated those inland waves was built many years anterior to that date. The first American vessel which navigated the waters of Lake Erie was the schooner Washington, built near Erie, in Pennsylvania, in 1797. The first steamer on this lake was constructed at Black Rock, in 1818. In 1825, however, the whole licensed tonnage of all the lakes above the Falls of Niagara consisted of three steamers of 772 tons, and 54 sailing craft of 1,677 tons, making an aggregate of steam and sail tonnage entering the port of Buffalo of only 2,449.

In 1830	this had	increased to	16,300
In 1835	66	66	30,602
In 1841	46	66	55,181
In 1846	46	66	90,000
In 1851	66	66	153,426

It will be observed that the ratio of increase, during this series of years, was, from 1825 to 1830,113 per cent. per annum.

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1830 to 1835, 18 " "
1835 to 1841, 13\frac{1}{3} " "
1841 to 1846, 12 " "
1846 to 1851, 14 " "
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Astonishing and unprecedented as is this increase, it yet gives no adequate idea of the increase of business transacted by it; for the changes which the last quarter of a century has wrought in the construction and models of vessels—adapting them to greater speed and capacity for burden, together with the improvement in the modes of shipping and discharging cargoes—have increased the availability of the same amount of tonnage more than tenfold. In order to ascertain the real augmentation of the commerce of Buffalo, during the period above mentioned, recourse must be had to the quantities of the articles transported. In 1825, and for many subsequent years, all the grain cargoes were handled in buckets, and from three days to a week were consumed in discharging

a single cargo, during which time the vessel would, on an average, lose one or two fair winds; whereas the largest cargoes are now readily discharged by steam, in fewer hours, than in days at that time.

Again; steamers now require but twelve hours to make trips for

which three days were then, at the least, necessary.

Up to the year 1835 the trade consisted principally of exports of merchandise to the West. During that year, however, Ohio commenced exporting breadstuffs, ashes, and wool, to some extent. The following table exhibits the quantities of several leading articles of western produce, during the various periods from 1835 to 1851:

Articles shipped eastward from Buffalo by canal.

Articles.	1835.	1840.	1845.	1850.	1851.
Flour barrels	86,233	633,790	717,406	984,430	1,106,359
Wheat bushels	95,071	881,192	1,354,990	3,304,647	3,668,008
Corndo	14,579	47,885	33,069	2,608,967	5,789,849
Provisionsbarrels	6,502	25,070	68,000	146,836	117,734
Ashesdo	4,419	7,008	34,602	17,504	25,585
StavesNo	2,565,272	22,410,660	88,296,431	159,479,504	75,927,659
Woolpounds	140,911	107,794	2,957,007	8,805,817	7,857,907
Cheesedo	1,030,632	3,422,687	6,597,007	17,534,981	11,102,289

The figures above are taken from the canal returns for the several years, and of course do not embrace the whole imports of the lakes, but are given as the best attainable standards of the increase of lake commerce, up to the date when the statistics of that commerce began to be kept in a manner or which policy which the record

to be kept in a manner on which reliance might be reposed.

The table next ensuing will give a fuller and more satisfactory idea of the actual increase of the trade, as well as of the various kinds of articles received at Buffalo, during a series of consecutive years. In this table all packages of the same article are reduced to a uniform size; and for this reason, probably, some articles will be found to vary in quantity, for the year 1851, from the figures contained in the report made up at the collector's office, and furnished by Mr. Wm. Ketchum, the collector, showing the receipts at Buffalo, Dunkirk, and Tonawanda, by lake, together with their tonnage, their value at each point, and their aggregate for all the points combined.

The following table was made up from day to day, during the several seasons, and will be found substantially correct. By reference to the official tables, following this report, some details will be found very curious, and interesting at this juncture, for reasons which will be

adduced hereafter:

Articles.	1848.	1849.	1850.	1851.
Flour barrels	1, 249, 000	1, 207, 435	1, 088, 321	1, 216, 603
Porkdo	66,000	59, 954	40, 249	32, 169
Beefdo	53, 812	61,998	84,719	73, 07
Baconpounds	included in pork	5, 193, 996	6, 562, 808	7,951,300
Seeds barrels	22, 020	21,072	9,674	11, 120
Lumber feet	21, 445, 000	33, 935, 768	53,076,000	68,006,000
Wool bales	40,024	49,072	53, 443	60, 94
Fishbarrels	6,620	5,963	10, 257	7, 87
Hides	70,750	62, 910	72,022	48, 43
Leadpigs	27, 953	14,742	17, 951	28,71
Pig irontons	4, 132	3, 132	2,881	2,73
Coaldo	12, 950	9,570	10, 461	17, 24
Hempbales	865	414	421	3, 02
Wheat bushels	4, 520, 117	4,943,978	3, 672, 886	4, 167, 12
Corn do	2,298,100	3, 321, 661	2,504,000	5, 988, 77
Oatsdo	560,000	362, 384	347, 108	1, 140, 34
Ryedo	17,809	5, 253	50	10,65
Lard pounds	5, 632, 112	5, 311, 037	5, 093, 532	4,798,50
Tallowdo	1,347,000	1,773,650	1,903,528	1,053,90
Butterdo	6, 873, 000	9,714,170	5, 298, 244	2, 342, 90
Ashescasks	9,940	14,580	17, 316	13, 50
Whiskeydo	38,700	. 38,753	30, 189	66, 52
Leather rolls	3, 313	3,870	8, 282	8, 18
StavesNo	8,091,000	14, 183, 602	19,617,000	10, 519, 00

At the present moment the official documents, alluded to above as following this report, merit something more than ordinary attention, as they display the character, quantity, and estimated value of each article passing over the lakes eastward, in pursuit of a market, and the places of shipment on the lake indicating, with sufficient accuracy, the regions where produced. Thus it will be observed that the small amount of cotton, received, came viâ Toledo, which may be held to signify that it reached that point by canal from Cincinnati, to which place it had been brought from the southward by the Ohio river. The same remarks will apply to tobace, and in some sort to flax and hemp. The latter, however, arrive in nearly equal quantities by this route, and by the Illinois river, the Illinois and Michigan canal, and by lake from Missouri.

Nothing can be more interesting or instructive, as connected with the lake trade, than statistics like these, showing whence come these vast supplies, and what superficies of country is made tributary to this immense commerce.

The recapitulation of the tables, referred to, shows the commerce of Buffalo to have been—
In 1851, of imports, 731,462 tons, valued at......\$31,889,951

" exports, 204,536 " " 44,201,720

Making an aggregate of ... 76,091,671
In 1850 it was ... 67,027,518

Increase on 1851..... 9,064,153

Of the trade there were, in 1851, imports from Canada exports to Canada	\$507,517 613,948
Total Canadian trade of 1851	1,121,465
Of the trade there were, in 1850, imports from Canada " exports to Canada	\$307,074 220,196
Total Canadian trade of 1850	527,270
Increase of Canadian trade on 1851	

It is, perhaps, proper here to observe that much of the property purchased in Buffalo for the Canadian market passes over the Niagara Falls railway to the suspension bridge, where it is reported as passing into Canada from the Niagara district, and is as such reported as the trade of that district.

The tonnage of this port exhibits an increase no less gratifying than that of the commerce.

Tonnage for 1851.

		BR	ITISH.	AMEI	RICAÑ.
	Crews, total.	Vessels.	Tons.	Vessels.	Tons.
Arrivals	7, 227 7, 486	601 593	72, 212 71, 241	170 205	30, 100 31, 927
Aggregate	14,713	1, 194 939	143, 453 149, 537	375 528	69, 027 56, 048
Increase and decrease Aggregate increase for 1851			dec. 5, 084	dec. 153 255	inc. 12, 979 5, 084
From and to foreign ports				102	7, 895

Coasting trade for 1851.

	No.	Tons.	Men.
OutwardInward	3, 719 3, 762	1, 448, 772 1, 433, 777	60, 374 59, 705
Total coasting	7, 481	2, 882, 049	120, 079
Total coasting and foreign. Do. do. do. 1850.	9, 050 8, 444	3, 087, 530 2, 713, 700	134, 792 125, 672
Increase of 1851	606	373, 830	9, 120

This array of tonnage would suffer little by comparison with that of any of our Atlantic ports. It is composed of 107 steamers and steam-propellers, and 607 sailing vessels, varying in size from steamers of 310 feet length and 1,600 tons burden, to the smallest class of both steam and sailing vessels. It is a significant fact, that out of nearly 7,000 tons of vessels building at Buffalo on the 1st of January, 1852, there was but one sailing vessel—of 230 tons—the remainder consisting of steamers and propellers; showing conclusively that steam is daily growing more rapidly into favor in a trade so admirably adapted to its successful application as that of the western lakes.

The present population of Buffalo, as stated above, is estimated at 50,000 persons; the principal part of the inhabitants being employed in occupations more or less closely connected with the commerce of the

lakes and canals.

There is, moreover, much manufacturing successfully carried on in

this place, more especially in leather, iron, and wood.

In the above calculation of the commerce of Buffalo, no estimate has been made of the enormous passenger trade, or of the value of the many tons of valuable goods and specie transported by express over the railways and on board the steamers. But were it possible to arrive at the value of such commerce, it cannot be doubted that it would swell the aggregate amount of the trade, by many millions of dollars.

The enrolled and licensed tonnage of this district is 22,438 tons, of

steam measurement; and 23,619 tons of sail, enrolled.

WM. KETCHUM, Collector.

Statement of property shipped westward from the principal ports in the district of Buffalo Creek, New York, during the year ending \$31st December, 1851.

,	Shipped at Buffalo.	t Buffalo.	Shipped at Dunkirk.	Dunkirk.	Shipped at	Shipped at Tonawanda.	Total from the District.	he District.
Class of property.	Tons of 2,000 pounds each.	Value.	Tons, of 2,000 pounds each.	Value.	Tons, of 2,000 pounds each.	Value.	Tons, of 2,000 pounds each.	Value.
Products of the forest. Product of animals. Veretable food. Other agricultural products. Manufactures. Merchandise.	181 234 1189 11,795 11,795 11,689 21,689	\$5,406 33,138 33,138 49),626 512,618 42,234,696 920,462	15,867 \$5,394,780	\$5, 394, 730	None. None. 1,000 3,234 794 5,038	\$3,909 3,471 112,876 1,551,329 20,838 1,692,423	183 234 118 1,006 12,795 188,621 22,463	\$9,315 33,138 33,138 495,097 625,494 49,181,003 941,923 51,288,923

District of Boffalo Creek, New York, Custom-house, Buffalo, Februay 19, 1852. Statement of property, moving eastward, received at Buffalo, coastwise and from Canada, for the year 1851: showing the kinds of property, and quantities of each kind, from each American port and Canada.

Ports.	Ashes.	Ale		Alcohol.	Barley.	
2 3 3 3 3	Casks.	Barrels.	Dozen.	Casks.	Bushels.	
Silver Creek						
Dunkirk						
Barcelona						
Erie	296			31	4, 638	
Conneaut	66	1				
Ashtabula	113			[
Madison Dock						
Fairport	478		• • • • • • • • • • • • • • • • • • • •			
Black River	78 72		• • • • • • • • • • • • •	• • • • • • • • • •	• • . • • • • • • • •	
Vermillion		A.	•••••	125	440	
Cleveland Huron and Milan	1,515 536				100	
Sandusky	1,038	17		340	100	
Fremont	292					
C oledo	3, 590	5		255		
Monroe	772					
Gibraltar				38		
Detroit	2,843					
renton						
St. Clair						
Saginaw						
Mackinaw						
Green Bay	. 11			• • • • • • • • • • • •		
Beaver Islands				• • • • • • • • • • • • • • • • • • • •		
Grand Haven	209					
St. Joseph's Sheboygan				********		
Milwaukie		* * * * * * * * * * * * * * * * * * * *			88, 56	
Racine					17, 71	
Kenosha					18, 57	
Waukegan					6, 36	
Chicago	376	35			10, 36	
Michigan City	. 16					
	13 450	62		789	146, 57	
Canada	13, 458 263	02	39	109	19, 61	
Vallende	200				15, 01.	
Total	13, 721	C 2	39	789	166, 186	

Ports.	Bark.							
20.00	Barrels. Boxes.		Bags.	Packages.	Bundles.			
St. Clair Saginaw Mackinaw. Green Bay Beaver Islands Grand Haven St. Joseph's Sheboygan Milwaukie Racine Kenosha. Waukegan	17	27 6	21	3	38			
Total	23	44	21	3	38			

Ports.		Beef.			Beeswax.	
	Barrels.	Tierces.	Casks.	Barrels.	Casks.	Boxes.
Silver Creek						
Barcelona				• • • • • • • • • • • • • • • • • • • •		
Erie Conneaut	54 1,092			2 2		
Ashtabula	589			2		
Fairport	91	• • • • • • • • • • • • • • • • • • • •				**************************************
Vermillion	106 3, 129	4, 630		46	5	10
Huron and Milan Sandusky	1, 325 986	2		1 23		6
Fremont	6,646	86	46 310	11 104 13	2	
Monroe	1, 109 290			20	2	1
Detroit				20		
St. Clair						
Green Bay						
Grand Haven St. Joseph's				2		
Sheboygan	1,806					1
Racine	2,526			3		
Waukegan		1,504		23		2
Michigan City	443			1		
Canada	54, 414	6,222	356 4	253	9	32
Total	54, 414	6, 222	356	257	9	32

Ports.			Bacon at	nd hams.		
Ports.	Boxes.	Barrels.	Tierces.	Casks.	Hhds.	Tons.
Silver Creek.*. Dunkirk Barcelona Erie Conneaut. Ashtabula. Madison Dock Fairport. Black River. Vermillion. Cleveland. Huron and Milan. Sandusky. Fremont. Toledo Monroe. Gibraltar. Detroit. Trenton St. Clair. Saginaw. Mackinaw. Mackinaw. Beaver Islands. Grand Haven St. Joseph's. Sheboygan. Milwaukie Racine Kenosha Waukegan	5 99 21 1		1,600	2 20 1,332 197 16 1,087 15	94	19 53 34
Chicago Michigan City	44	2, 008 46	26 17	836	1	1,216
Canada	236	4,215	1,792	3, 560	95	1, 2841
Total	236	4, 215	1,792	3, 560	95	1,2841

Ports.	Brooms.	Broom	n corn.	Books.	Boots and shoes.	Bladders.
	Dozen.	Bales.	Tons.	Boxes.	Boxes.	Barrels.
St. Clair Saginaw Mackinaw. Green Bay Beaver Islands. Grand Haven	197 314 2 211 79 465 	1,382 348 59 58 529		132 8	30 2 5 5	5
Canada	2, 280	5, 238	8 [₹]	337 3	84	7
Total	2, 280	5, 238	81	340	84	7

S. Doc. 112.

Ports.	Butter.					
Ports.	Kegs.	Firkins.	Barrels.	Casks.	Hhds.	Number.
·						
Silver Creck.						
Dunkirk	40	• • • • • • • • • • • • • • • • • • • •				
	318		******			
Barcelona		149	81			1,600
Erie	3,532					1,000
Conneaut	671	32	31			
Ashtabula	684	39	42	4		
Madison Dock	61					
Fairport	332	10	22			
Black River	61		40			
Vermillion	59		5		1	
Clampland	4,496	869	667	14	8	
Cleveland			, ,,,		_ ~	
Huron and Milan	353	6				
Sandusky	2,711	54				
Fremont	671		6			
Toledo	2,064	4	229			
Monroe	12	34	2			
Gibraltar			l	1	1	
Detroit	209		5			
	203					
Trenton						· · · · · · · · · · · · · · · · · · ·
St. Clair					••••	· · · · · · · · · · · · · · · · · · ·
Saginaw						
Mackinaw						
Green Bay						
Beaver Islands						
Grand Haven				1		1
St. Joseph's						1
	6					
Sheboygan		2	4	1		
Milwaukie		~	1 *			
Racine				**********		
Kenosha						
Waukegan						
Chicago	. 787		22			
Michigan City		30				
						-
	19,017	1,229	1, 156	18	8	1,690
Canada		1 -,~~	1,100			
Canada	234			1		1
PD - 1	10.0	1, 229	1,156	1	8	1,600
Total	. 19, 251	1 99u.			n N	1 1.018

Ports.	Beer pumps.	Bath brick	Bri	ick.	Во	nes.
	Number.	Number.	Number.	Tons.	Tons.	Hhds.
Silver Creek Dunkirk Barcelona						
Erie	1		24,000	26		
Ashtabula						
Black River					***********	
Cleveland				30		6
Fremont					••••••	
Monroe						38
Trenton						
MackinawGreen Bay						
Beaver Islands Grand Haven St. Joseph's						
Sheboygan					• • • • • • • • • • • • • • • • • • • •	
Kenosha						
Chicago						217 11
Canada	2	805	37,800	56	5	272
Total	2	805	37,800	56	5	272

			Brandy.		Bristles. Brandy. Buffalo robes.		robes.	
	Sacks.	Casks.	Hhds.	Casks.	Bales.	Boxes,		
					,			
Silver Creek								
Dunkirk								
Barcelona								
Erie								
Conneaut								
Ashtabula								
Madison Dock								
Fai port						20		
Black River								
Vermillion								
Cleveland	10				18	990		
Huron and Milan								
Sandusky						160		
Fremont								
Toledo		8				1, 419		
Monroe								
Gibraltar								
Detroit					11	13		
Tienton	6							
St. Clair								
Saginaw								
Mackinaw								
Green Bay						10		
Beaver Islands								
Giand Haven								
St. Joseph's								
Sheboygan								
Milwaukie					1			
Racine								
Kenosha								
Waukegan								
Chicago		12			3, 216	959		
Michigan City								
	10	20			3,246	3,551		
Canada			4	1				
Total	. 10	20	4	1	3, 246	3,551		

Ports.	Carpeting,	Carriages.	Cedar j	posts.	Cement.
• • • • • • • • • • • • • • • • • • • •	Rolls.	Number.	Cords.	Number.	Barrels.
Silver Creek. Dunkirk Barcelona Erie. Conneaut. Ashtabula. Madison Dock Fairport. Black River Vermillion. Cleveland. Huron and Milan Sandusky Fremont. Toledo Monroe. Gibraltar. Detroit Trenton. St. Clair. Saginaw. Mackinaw Green Bay Beaver Islands. Grand Haven St. Joseph's. Sheboygan. Milwaukie. Racine. Kenosha. W ukegan Chicago Michigan City.	41 1 1 3	2 5 6 21 15 3 3 14 72	681	500 20	521
Canada	55	·	742	1,530	521
Total	57	171	742	1,530	521

Ports.		Cheese.		Cider.	Cigars.	Coal.
I UI W.	Boxes.	Casks.	Tons.	Barrels.	Cases.	Tons.
Barcelona Erie Conneaut Conneaut Ashtabula Madison Dock Fairport Black River Vermillion Cleveland Huron and Milan Sandusky Fremont Toledo Monroe Gibraltar Detroit Trenton St. Clair Saginaw Mackinaw Green Bay Beaver Islands Grand Haven St. Joseph's Sheboygan.	43, 465 18, 648 38, 789 32, 780 357 116 26, 298 772 10	316 134 207 18	25		6	788
Milwaukie. Racine Kenosha. Waukegan Chicago Michigan City.		701		77		17,017
Canada		701	62	17 84	57	17, 017

Ports.	Coi	n.		Copper.		Coffee.
	Dollars.	Packages.	Barrels.	Tons.	Pieces.	Sacks.
Silver Creek Dunkirk Barcelona. Erie Conneaut. Ashtabula Madison Dock Fairport. Black River. Vermillion Cleveland Huron and Milan. Sandusky remont Toledo Monroe. Gibraltar Detroit Trenton St. Clair. Saginaw Mackinaw. Green Bay Beaver Islands. Grand Haven St. Joseph's. Sheboygan Milwaukie. Racine Kenosha. Waukegan Chicago Michigan City		3 13 15 	31 2 2 146 6 1 18 5 4 313 2 2 30 2 538 2	76	13	5 26 20 1
Total	160, 400	173	540	2431	15	53

Ports.	Corn.	Corn meal.	Cotton.	Cranberries.	Deer skins.
2 02.55	Bushels.	Barrels.	Bales.	Barrels.	Packs.
Saginaw	13, 269 12, 121 1, 300 2, 200 13, 201 30, 387 458, 502 220, 051 297, 114 43, 740 1, 828, 502 19, 615 223, 204 2, 100 20, 907 23, 548 9, 577 6, 498 12, 639 2, 351, 888 318, 363		310	2 28 323 264 740 2 43 2 5	25 26 84 33 61 165 283 13
Canada	5, 938, 738 8	2, 929	310	1, 417	927 3
Total	5,938,746	2, 929	310	1,417	930

Ports.	I	Earthen ware		Eggs.	Feathers.	Felt.
	Casks.	Barrels.	Crates.	Barrels.	Sacks.	Rolls.
Silver Creek. Dunkirk Barcelona Erie Conneaut. Ashtabula Madison Dock Fairport. Black River. Vermillion Cleve'and Huron and Milan Sandusky Fremont Toledo Monroe Gibraltar Detroit Trenton. St. Clair. Saginaw. Mackinaw Green Bay. Beaver Islands. Grand Haven St. Joseph's Sheboygan Milwaukie Racine. Kenosha. Waukegan Chicago. Michigan City.	79 68 7	2	3 35	11,371	11 39 1, 152 7 412 9 1, 407	695
Total	154	3	116	11,432	3, 336	1,057

S. Doc. 112.

Barrels. Cords. Bales. Tons. Sacks. Barrels.	7	Fish.	Firewood.	Flax and	l hemp.	Flaxs	ed.
Dunkirk	Ports.	Barrels.	Cords.	Bales.	Tons.	Sacks.	Barrels.
Cleveland 443 301 44 Huron and Milan 120 3 Sandusky 6 120 3 Fremont 1 353 852 963 8 Monroe 1 60 1	Dunkirk Barcelona Erie Conneaut Ashtabula Madison Dock Fairport Black River	4 I		181		73	13
Trenton St. Clair Saginaw Mackinaw Mackinaw 973 Beaver Islands Grand Haven St. Joseph's Sheboygan 728 Milwaukie 544 Racine Waukegan 2 Chicago 9,979 2,471 113 1,338 1,538	Cleveland	6 353 1					173 460 6 347 28 803
Sheboygan 728 Milwaukie 544 Racine 266 Kenosha Waukegan 2 Chicago 430 Michigan City 9 9,979 2,471 113 1,338 1,338 1,338	Trenton	2, 495 973 1, 506					
	Sheboygan	728 544 266 2 430				182	I 13
	Canada	2	82				1,848 9 1,857

Ports.	Flour.	Fruit, green.	Fruit, dried.			
	Barrels.	Barrels.	Barrels.	Boxes.	Baskets.	Sacks.
Silver Creek Dunkirk. Barcelona Erie Conneaut. Ashtabula. Madison Dock. Fairport. Black River Vermillion Cleveland Huron and Milan Sandusky. Fremont Toledo. Monroe Gibraltar Detroit. Trenton St. Clair. Saginaw Mackinaw Green Bay Beaver Islands Grand Haven St. Joseph's Sheboygan Milwaukie Racine Keoosha Waukegan Chicago. Michigan City	5 6 4,079 24 618 558 6,952 360,059 2,012 91,405 649 218,219 78,977 270,551 400 33 8,285 6,461 506 80,025 17,721 1,913 2,118 53,151 118	104 28 63 7 18 1 97 5 519	93 144 88 278 38 82 130 645 24 26 72 123 4 209	8 2 2 3 4 4 5 5 10 10 43 1 12 12 7 13	153	40 28 129 2 74
Canada	1,204,643 11,960	847 1, 261	2,095	208	153	303
Total	1, 216, 603	2, 108	2,095	208	153	303

S. Doc. 112,

7		Furniture.		Furs.		
Ports.	Boxes.	Packages.	Lots.	Packs.	Boxes.	Casks.
Silver Creek. Dunkirk. Barcelona Erie. Conneaut Ashtabula. Madison Dock. Fairport. Black River. Vermillion Cleveland. Huron and Mılan Sandusky. Fremont Toledo. Monroe Gibraltar. Detroit. Trenton St. Clair. Saginaw. Mackinaw. Green Bay Beaver Islands. Grand Haven St. Joseph's Sheboygan Milwaukie Racine.	10 31 2 7 7 7 7 2 24 45 3 93 2	73 57 14 28 18 506 50 51 180 32 160 134 55 20	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	42 42 467 9 425 369 1 82 6 83 17	24 24 24 31 31	25 I \$\frac{5}{6} \cdot 6
Kenosha	32	10 377	3	546	2	3
Canada	317 10	1,917	37 6	2, 274 11	115	59
Total	327	1,925	43	2, 285	115	59

Ports.		Ginseng.		Glass.		
rons.	Barrels.	Boxes.	Packages.	Boxes.	Tons.	
Silver Creek. Dunkirk. Barcelona. Erie. Conneaut Ashtabula. Madison Dock Fairport. Black River. Vermillion Cleveland. Huron and Milan Sandusky. Fremont. Toledo. Monroe Gibraltar Detroit. Trenton St. Clair Saginaw. Mackinaw Green Bay Mackinaw Green Bay Beaver Islands. Grand Haven St. Joseph's Sheboygan Milwaukie Racine. Kenosha. Waukegan Chicago Michigan City.	23 13 143 2	6	24	2,010 5 764	18	
Canada	122	7	195	*3, 183	18	
Total	122	7	195	3, 185	18	

^{* 400} boxes from Ogdensburg.

S. Doc. 112.

Ports.		Glass wa	are.		Glue.	Grease.
	Boxes.	Casks.	Packages.	Tons.	Barrels.	Barrels.
Silver Creek. Dunkirk. Barcelona Erie. Conneaut. Ashtabula Madison Dock Fairport Black River Vermillion Cleveland Huron and Milan. Sandusky Fremont Toledo. Monroe Gibraltar. Detroit. Trenton St. Clair. Sagınaw Mackinaw. Green Bay Beaver İslands Grand Haven. St. Joseph's Sheboygan Milwaukie Racine Kenosha Waukegan	1, 162 14 12	302 270 14 3 10			50	568
Chicago					102	125
Canada	1,830	610 1	710	49	288 3	1, 154
Total	1,830	611	710	49	291	1,154

Ports.	Grinds	Grindstones.		Hair.	Hides.		
	No.	Tons.	Cases.	Packages.	No.	Bundles.	Tons.
Silver Creek Dunkirk Barcelona Erie Conneaut Ashtabula Madison Dock Fairport. Black River Vermillion Cleveland Huron and Milan Sandusky Fremont Toledo Monroe Gilraltar Detroit. Trenton St. Clair. Saginaw Mackinaw Green Bay Beaver Islands Grand Haven St. Joseph's Sheboygan Milwaukie Racine Kenosha Waukegan Chicago	203 4,123 425 1	82 190 1, 433 18	13	270 270 1 9	303 875		266
Michigan City Canada	4, 753		180	364	397 47, 963 50	604	26
Total	4, 753	1,723	180	364	48, 013	604	26

Ports.	High wines.	Hogs.	Horned cattle.	Horses.	Норв.	Horns and hoofs.
	Barrels.	Number.	Number.	Number.	Barrels.	Hhds.
Silver Creek		348				***********
Barcelona	193		265	126	2 2	
Conneaut	222	90	19	4		• • • • • • • • • • • • • • • • • • • •
FairportBlack River		8	399	40		
Vermillion	*********	27,033	3,752	920		100
Huron and Milan Sandusky Fremont	22, 183 1, 5&0 8, 313	582 28,469	851	341		• • • • • • • • • • • • • • • • • • • •
Toledo		29,978	1 7	344 5		82
Gibraltar	4,156	6, 657	594	710		I
Trenton			I			
Mackinaw			12	A		
Beaver Islands Grand Haven			29	1		
St. Joseph's Sheboygan Milwaukie	20		I	2 19		
Racine			2 23	19 19	1	56
Waukegan	2,086 61	468	1, 307	93	2	20
	51,015	96, 182	8,097	2,630	7	269
Canada		1,515	497	131		
Total	51,015	97, 697	8, 594	2,761	7	269

Ports.		Hard	ware.	Iron.			
	Boxes.	Barrels.	Bundles.	Pieces.	Pigs.	Tons.	
Fairport Black River Vermillon Cleveland Huron and Milan Sandusky Fremont Toledo Monroe Gibraltar Detroit Trenton	385 4 33 4 32 5 10	9 4 59 1	12 13	139 1 1 9 609 25 14 4 16	5, 320 57	12 	
Canada	643	81	2,210	890	6,050	*2,195 †4,991‡	
Total	643	81	2, 210	890	6,050	7,186	

^{* 335} tons from Ogdensburg.

[†] From England.

Ports.	:	Iron.			Lard.		
	Casks.	Bundles.	Kegs of nails.	Barrels.	Casks.	Kegs.	
Silver Creek							
Durkirk							
Barcelona							
krie	207	72	2,694			2	
Conneaut		1	2,002				
Ashtabula							
Madison Dock							
Fairport				l			
Black River			•••••	3			
Vermillion		1		[11	
Cleveland	93	80	503	2, 112	571	133	
Huron and Milan				13	5		
Sandusky	44			374		385	
	*****			9		7	
Toledo	30		2	2, 767	551	1,401	
			~	2, 101		1,101	
Gibroltar						·	
Detroit	64		2	21		14	
Frenton						14	
St. Clair.		• • • • • • • • • • • • • • • • • • • •					
Mackinaw							
Green Bay Beaver Islands						*********	
			* * * * * * * * * * * * *				
Grand Haven	******			• • • • • • • • • •			
St. Joseph's							
Sheboygan							
		13 23		*******			
Racine	**********			54			
Kenosha	18						
Waukegan				7		500	
Chicago		8		3,646	826	598	
Michigan City				329	529		
	45.0	105	*0.051	0.05:	0.400	0.574	
O3-	456	197	*3,951	9, 354	2, 482	2, 574	
Canada	84			• • • • • • • • • • •		3	
FD 4 1		105		0.05:	0.400	0. 500	
Total	540	197	3,951	9, 354	2,482	2, 577	

^{*750} kegs from Ogdensburg.

Ports.	Le	ad.	Lead pipe.	Lead pipe. Leather.		
	Pigs.	Tons.	Packages.	Rolls.	Boxes.	
Silver Creek Dunkirk Barcelona Erie Conneaut. Ashtabula Madison Dock Fairport Black River. Vermillion. Cleveland Huron and Milan. Sandusky Fremont. Toledo Monroe. Gibraltar Detroit. Teenton St. Clair Saginaw Mackinaw Green Bay. Beaver Islands Grand Haven. St. Joseph's. Sheboygan Milwaukie. Racine. Kenosha Waukegan. Chicago. Michigan City.	8,997 10,964 927 20,888		1 14 14 2 2 2	33 207 177 267 40 3, 127 21 545 121 2,218 134 236 150 28 39 21 300 231	18 4 3 3 20 11 16 4 1	
Canada						
Total	20,888	80	18	8, 343	121	

Ports.	Lumber.							
	В	lack walnut		Oak timber.				
	Feet.	Tons.	Pieces.	Feet.	Tons.	Pieces.		
Silver Creek Dunkirk								
Barcelona								
Erie								
Ashtabula								
Fairport			39					
Vermillion	19,677		36	10,000				
Cleveland								
Sandusky Fremont		100 27	120					
Toledo Monroe	33,915 166,870	26	523 717		1604	1,488		
Gibraltar Detroit			76			386		
TrentonSt. Clair								
Saginaw								
Mackinaw Green Bay								
Beaver Islands Grand Haven	140,000							
St. Joseph's Sheboygan								
Milwaukie								
Kenosha Waukegan						96		
Chicago					464	, ,		
Michigan City				10.000		0.21		
Canada	360,462 301,017	153	1,511	10,000 376,957	6241	2,84		
Total	661, 479	153	1,511	386, 957	6241	2,84		

	Lumber, shingles, &c.							
Ports.	Ship plank.	Sawed pine, white wood, &c.	Shingle bolls.	Shingles.	Laths.			
	Feet.	Feet.	Cords.	м.	Bundles.			
Silver Creek				,				
Dunkirk		375,998						
Barcelona		520, 500	36					
Erie	151, 142	9, 757, 297		447				
Conneaut		5, 697, 614						
Ashtabula		2,986,118			1,450			
Madison Dock		871, 400						
Fairport	71,000	405, 415						
Black River	220,000	256,000						
Vermillion		193,000						
Cleveland	110,000	184,143		5				
Huron and Milan		650, 053						
Sandusky	86,000	304,950						
Fremont	51,000	121, 287						
Toledo		1,616,814		66				
Monroe		1,745,640						
Gibraltar		271,000						
Detroit		8,953,714		329	3,87			
renton		309, 192						
St. Clair		1, 989, 023			<u>.</u>			
Saginaw		3, 938, 549		425	8			
Mackinaw								
Green Bay			61/2	390				
Beaver Islands				1, 192				
Grand Haven		982,000		20				
		164,000						
Sheboygan					J			
Milwaukie								
Racine								
Kenosha								
Wauk gan		106,000		77				
		1 '		''				
Michigan City								
	789, 142	42, 399, 697	421	2,951	5, 40			
Canada	103, 142	39, 373, 936	268	3, 148	7, 23			
W 5071A-001M607 0 0 0 0 0 0 0 0 0 0 0 0 0 0		00,010,000			., 20			
Total	789, 142	81, 773, 633	310 }	6,099	12, 64			

S. Doc. 112.

Ports.	Malt.		Machines.					
Forts.	Bushels.	Number.	Pieces.	Boxes.	Number.			
Silver Creek		5			 			
Barcelona	•••••••••	8			*********			
Conneaut	• • • • • • • • • • • • • • • • • • • •							
FairportBlack River	• • • • • • • • • • • • • • • • • • • •	9 1	5		2			
Cleveland	694	23	8	15	160			
SanduskyFremont	• • • • • • • • • • • • • • • • • • • •	9			20			
		9						
Detroit		2	8					
Saginaw		************		• • • • • • • • • • • • • • • • • • • •				
Beaver Islands		*****		• • • • • • • • • • • • • • • • • • • •	••••••			
St. Joseph's		**********						
		2			• • • • • • • • • • • • • • • • • • •			
Waukegan		14		• • • • • • • • • • • • •				
	694	73	21	15	182			
Canada	202	me			• • • • • • • • • • • • • • • • • • • •			
Total	896	73	21	15	182			

Ports.		Medicines.		IM.	lerchandise.	
Forts.	Boxes.	Barrels.	Sacks.	Boxes.	Packages.	Barrels.
Silver Creek Dunkirk. Barcelona Erie. Conneaut. Ashtabula Madison Dock. Fairport Black River Vermillion Cleveland Huron and Milan. Sandusky Fremont. Toledo. Monroe. Gibraltar Detroit. Trenton. St. Clair Saginaw Mackinaw Green Bay Beaver Islands Grand Haven St. Joseph's Sheboygan Milwaukie Racine. Kenosha Waukegan	93 30 5 115 2 29	19	4 65	2 22 36 4 2 16 145 92 95 8 63	27 21 63 5 5 58 641 8 14 34 392	38
Chicago	62			127		
Canada	557	43	69	654	1,590	49
Total	557	43	69	654	1,590	4

S. Doc. 112.

Ports.	Oilc	ake.	Oileloth.	Oilstone.	Pair	nt.
Louis	Hhds.	Tons.	Packages.	Boxes.	Barrels.	Kegs.
Silver Creek Dunkirk. Barcelona Erie Conneaut Ashtabula Madison Dock Fairport Black River Vermillion. Cleveland Huron and Milan Sandusky Fremont. 'Toledo Monroe Gibraltar Detroit Trenton St. Clair Saginaw Mackinaw Green Bay Beaver Islands Grand Haven St. Joseph's. Sheboygan Milwaukie. Racine Kenosha Waukegan Chicago Michigan City	5 500 14 62	210 48 1,537	11	25 40	20 2 5,846 549	32
Canada	583	1,845	23	78	6, 417	88

Ports.		Paper.		Pianos.	Plaster.	Peas and beans.
	Bundles.	Boxes.	Rolls.	Number.	Tons.	Barrels.
Detroit. Trenton St. Clair Saginaw. Mackinaw Green Bay Beaver Islands. Grand Haven St. Joseph's. Sheboygan Milwankie Racine. Kenosha	3,706 294 580	88	200	2 1 1 3 6	84	22 68 2 10 204 48 285 39
Chicago	5, 096	122	1, 200	18	89	753 196
Canada	5,096	122	1, 200	18	90	949

Ports.	Pou	ltry.	Pork.	Potatoes.	Railread ties.	Re	ıga.
	Pounds.	Boxes.	Barrels.	Bushels.	Number.	Tons.	Sacks.
Huron and Milan. Sandusky. Fremont. Toledo. Monroe. Gibraltar. Detroit. Trenton. St. Clair. Saginaw Mackinaw. Green Bay Beaver Islands. Grand Haven. St. Joseph's. Sheboygan Milwaukie Racine. Kenosha Waukegan. Chicago. Michigan City.	300	9 II 50 15	\$88 266 73 113 138 130 5,089 255 1,371 150 9,259 2c9 266	72 26	12, 334	2 8 2 15	8 320 180 84 453 7, 628 6 15 121 493 182 96 700 10,288 20
Total	300	75	32, 825	11,446	12, 334	334	10, 308

	Reapers.	Roots.	Rope.	Rye.	Salæ	ratus.	Sausages.
Ports.	No.	Barrels.	Pkg's.	Bushels.	Boxes.	Barrels.	Barrels.
Silver Creek. Dunkirk. Barcelona. Erie Conneaut. Ashtabula. Madison Dock. Fairport. Black River. Vermillion. Cleveland. Huron and Milan. Såndusky. Fremont. Toledo. Monroe. Gibraltar. Detroit. Trenton. St. Clair. Saginaw. Mackinaw. Green Bay. Beaver Islands. Grand Haven. St. Joseph's Sheboygan. Milwaukie. Raoine. Kenosha Waukegan Chicago. Michigan City.	2 1	3 178 6 12	26	7, 534 2, 500 144 188 		16 197 27 51 203	11 4 25 6
Canada	289	202	138	19,348 87	270	617	46
Total	289	202	138	19, 435	270	617	46

	Sheep.	Sheep-	skins.		Seed.		
Ports.	No.	Tons.	Bundles.	Barrels.	Boxes.	Casks.	
Silver Creek Dunkirk Barcelona Erie Conneaut. Ashtabula Madison Dock Fairport. Black River. Vermilion. Cleveland Huron and Milan Sandusky. Fremont Toledo. Monroe Gibraltar Detroit. Trenton St. Clair. Saginaw Mackinaw. Green Bay Beaver Islands. Grand Haven St. Loanty	801 5,363 9,075 1,900		856 101 224 101 70 1,197 112 746 942 14	271 1,091 53 358 70 35	28 3 37 8	25 3 63 18	
St. Joseph's Sheboygan Milwaukie Racine Kenosha Waukegan Chicago Michigan City Canada	125	7	8 70 3 281 5, 333 2,043	37 51 30 1,722 33 3 706 52	201	115	
Total	18, 906	7	7,376	3,758	277	113	

	Sto	ne.	Soap.	Sta:	rch.
Ports.	Tons.	Boxes.	Boxes.	Barrels.	Boxes.
Barcelona Erie. Conneaut. Ashtabula. Madison Dock Fairport. Black River Vermilon Cleveland Huron and Milan Bandusky Fremont Toledo Monroe Gibraltar Detroit Trenton St. Clair. Saginaw Mackinaw Mackinaw Green Bay Beaver Islands Grand Haven	460	272 271 184	102 52 174	227	2, 226 35
Waukegan	i		10		117
Canada	461 1,711	485	338	227	3, 206
Total	2,172	485	338	227	3, 206

Ko.	Staves.	Stavé bolls.	Sundries.	Tallow.	Tea.	Tin.
Ports.	М.	Cords.	Packages, boxes,&c.	Barrels.	Chests.	Boxes.
Silver Creek. Dunkirk. Barcelona Erie Conneaut. Ashtabula Madison Dock Fairport. Black River Vermiloon Cleveland Huron and Milan Sandusky Fremont. Toledo. Monroe Gibraltar Detroit. Trenton St. Clair Saginaw Mackinaw. Green Bay Beaver Islands Grand Haven St. Joseph's Shebo ygan Milwaukie Racine Kenosha Waukegan Chicago. Michigan City.	52 200 60 10,639		35 155 28 58 26 2 1,246 9 566 34 1,012 82 1,431 3 3 21 8 6	106 3 111 104 146 292 13 728 7	29 5 1 20 20 3	38 1 26 I
Canada	57	31½	•••••			
Total	10,696	31 ½	6,924	2, 432	63	66

D- 4-		Tobacco.		Tongues.	Tripe.	Туре.	Varnish
Ports.						_	
	Hhds.	Boxes.	Barrels.	Barrels.	Barrels.	Boxes.	Barrels.
Silver Creek							
Dunkirk							
Barcelona					5	2	
Erie	2	I					
Conneaut	1	39	1				
	• • • • • • • • • •						4
	• • • • • • • • • • • • • • • • • • • •						
Fairport							
Black River							
	• • • • • • • • • • • • • • • • • • • •						
Cleveland	319	203	• • • • • • • • • •	77	204	26	
Huron and Milan.				12			
Sandusky	179	95		3		7	1
Fremont	000		17	• • • • • • • • •	2		
Toledo	886	477					
Monroe	• • • • • • • • •			54		2	******
	• • • • • • • • • •					95	******
Detroit	• • • • • • • • •		• • • • • • • • • •	_		35	1
Trenton	••••••	13	• • • • • • • • • • • • • • • • • • • •			• • • • • • •	
St. Clair						• • • • • • • •	
Saginaw	• • • • • • • • •					• • • • • • • •	
					• • • • • • • • • •	• • • • • • •	• • • • • • • • • • • • • • • • • • • •
~							
St. Joseph's					• • • • • • • • • •		******
		• • • • • • •	••••••	16	I	12	
			• • • • • • • • •	10	1	12	
Kenosha				10		7	
Waukegan						'	
Chicago	100.00	24		44	7	22	
			· • • • • • • • · · ·	44	•	22	
michigan Ony							
	1, 417	852	18	217	219	113	10
Canada	1,411	032	10	211	219	113	10
vanada							
Total	1,417	852	18	217	219	113	10
- Osumos	1,711	002	10	211	213	110	10

Ports.	Veneering.	w	are.	W i	ne.	Wheat.
L Value	Boxes.	Tons.	Packages.	Boxes.	Casks.	Bushels.
Silver Creek. Dunkirk Barcelona Erie Conneaut. Ashtabula Madison Dock Fairport Black River Vermilion Clevel ind. Huron and Milan. Sandusky. Fremont Toledo Monroe. Gibraltar Detroit Trenton St. Clair. Saginaw Mackinaw Green Bay. Beaver Islands. Grand Haven St. Joseph's. Sheboygan. Milwaukie. Racine Kenosha Waukegan Chicago Michigan City.			83 4 4 2 1			28, 619 673, 403 267, 728 619, 529 44, 224 802, 564 168, 664 512, 759 30, 776 20, 534 83, 602 104, 902 95, 894 82, 447 315, 598 96, 812
Canada	39	2	107	116	I 10½	3, 948, 655 101, 655
T otal	39	2	107	116	1112	4, 050, 310

					WOOD MANU	factur ë s	• . •
Ports.	Whiskey.	Wo	ol.	Sundr	y articles.	Curriers'	Hand- spikes.
	Barrels.	Bales.	Tons.	Boxes.	Bundles.	No.	No.
Silver Creek Dunkirk. Barcelona Erie Conneaut Ashtabula. Madison Dock Fairport. Black River Vermilion Cleveland Huron and Milan Sandusky Fremont Toledo Monroe Gibraltar Detroit Trenton St. Clair Saginaw Mackinaw Mackinaw Mackinaw Beaver Islands Green Bay Beaver Islands Grand Haven St. Joseph's Sheboygan Milwaukie Racine Kenosha Waukegan Chicago	235 2,023 3,613 4,941 23 228	21 200 2, 444 74 221 156 873 887 180 27, 180 1, 098 8, 356 25 3, 963 1, 036 7, 817	62	99	166 585 82 82 173 1,376 102 12 356 185	825	1,480
Michigan City Canada	11,765	61, 290 46	9½ 39¼	367	3, 132	825	1, 480
Total	11,765	61, 336	483	387	3, 139	825	1, 480

	WOOD MANUFACTURES.						
Ports.	Oars.			Wagon woods.			
	Tons.	M. feet.	No.	Hubs.	Spokes.	Pieces	Felloes.
Silver Creek							
Dunkirk							
Barcelona							
Erie	40	413	85,792			38	4,000
Conneaut	TEM.	*10	00,102				7,000
Ashtabula							*****
Madison Dock							
		1		400	22,000		******
Fairport		• • • • • • • •		400	22,000		
Vermilion							
Cleveland				600			
Huron and Milan							
andusky	*****						
remont							
Foledo				250	• • • • • • • • •		
Monroe							
Fibraltar							******
Detroit							******
Crenton] · • • • • · ·	
St. Clair							
Saginaw							
Mackinaw							
Green Bay							* * * * * * *
Beaver Islands							
Grand Haven							
L Joseph's							
heboygan							
Ailwaukie] <i>.</i>					
Lacine					*******		
Cenosha							
Vaukegan						• • • • •	
hicago							
dichigan City							
	40		05 500	1 050	93,000	20	4 000
Canada	40	413	85, 792	1,250	22,000	38	4,000
Total	40	413	85, 792	1,250	22,000	38	4,000

Custom-house, Buffalo, February 19, 1852. WM. KETCHUM, Collector.

Statement showing the estimated value of each aggregate of the several articles received at each of the several ports in the district of Buffalo Creek coastwise and from Canada, and total values of all, for the year ending the 31st December, 1851.

Articles.	Quantities.		Value.	
	Packages.	Pounds.	y	uos
shes	13, 721 casks	6, 860, 500	\$2	91, 550
le	62 barrels 39 dozen bottles	18,600 720	}	386
lelcohol	789 casks	284, 040	,	16, 569
arley	166, 188 bushels	7, 977, 024		16, 332
eef	54, 414 barrels	17, 412, 480)	
eef	6, 222 tierces	2, 488, 800 178, 000	5	21, 89
eefark	129 packages	12, 900	,	64
acon and hams	236 boxes	70, 800)	01
Sacon and hams	4, 215 barrels	1, 348, 800	ĺ	
Sacon and hams	1, 792 tierces	716, 800	i a	05, 76
Sacon and hams	3,540 casks	1,770,000	1 -	00, 10
Sacon and hams	95 hogsheads	66, 500	Į.	
Sacon and hams	1,284½ tons,	2, 568, 500 38, 550	₹	
eeswax	9 casks	2,700	(8,89
eeswax	32 boxes	3,200	•	0,00
Grooms	2,280 dozen	22,800	•	3, 42
room-corn	5, 238 bales	1,047,600	}	63,87
room-corn	8½ tons	16, 500	5	
looks	340 boxes 84 boxes	102, 000 5, 040	,	8,50 3,30
Boots and shoesBladders	7 barrels	2, 100		ان,ن
Butter	19, 251 kegs	1, 925, 100)	•
Butter	1,229 firkins	122, 900	1	
Butter	1, 156 barrels	289,000 7,200	} 2	234, 8
Butter	18 casks	7, 200		
Sutter	8 hogsheads 2	4,800 100	J	
Beer-pumpsBeer-bottles	1,600	1,600		
Bath brick	805	3, 220		i
Brick	37,800	151, 200	1	3
3rick	56 tons	112,000	§	
Sones	5 tons	10,000	}	1,8
BonesBristles	272 hogsheads	113, 500 2, 000	}	
Bristles	20 casks		{	4
Brandy	4 hogsheads		1	1, 4
Brandy	4 casks	4, 200	3	
Buffalo robes	3,246 bales			162, 3
Candles	3,551 boxes 57 rolls			21,3
Carriages	171			8, 5
Cedar posts	1,530)	. 8
Cedar posts	42 cords	97, 800	3	
Cement	521 barrels		,	1,0
Cheese	163,099 boxes		1	346, 2
Cheese	62 tons			U7IU, 4
Cider	84 barrels		,	Ş
Cigars	57 cases			2, 8
Coal	17,009 tons	34, 018, 000		€8,0
Copper	540 barrels 243½ tons	• • • • • • • • • • • • • • • • • • • •	1	266, '
Copper	245÷ 1008		1 1	who '

STATEMENT-Continued.

Articles.	Quantities	Value.	
	Packages.	Pounds.	
Coffee	53 sacks	5, 300	\$530 2, 672, 436
Corn-meal	5, 938, 746 bushels 2, 929 barrels	332, 469, 776	5, 858
Cotton	310 bales	632, 664 139, 500	13,950
Cranberries.	1, 417 barrels	198, 380	8,502
Deer-skins.	930 bales	130, 200	46,500
Earthenware	154 casks)
Earthenware			9 126
Earthen ware	116 crates	81,600	8,136
Eggs	11, 432 barrels		91,456
Feathers	3, 336 sacks	166,800	66, 720
Feit	1,057 rolls		528
Fish	9,981 barrels		59,886
Firewood	82 cords		246
Flax and hemp	2,471 bales		44, 478
Flaxseed	113 tons 1,338 sacks		21,609
Flaxsecd	1,857 barrels		(12,000
Flour	1,216,603 barrels	262, 786, 248	4, 258, 110
Fruit, green	2, 108 barrels		2, 108
Fruit, dried	2, 095 barrels)
Fruit, dried	208 boxes		} 14,711
Fruit, dried	153 baskets		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Fruit, dried	303 sacks		Į
Furniture	327 boxes		CE 400
Furniture	1,925 packages		65, 400
Furniture	2 tons	487, 100] }
Furs	115 boxes		245, 900
Furs	59 casks		100
Ginseng	222 barrels		
Ginseng	7 boxes		. 6,052
Ginseng	195 packages)
Glass	3, 185 boxes		7,810
Glass	18 tons		3
Glass ware	1,830 boxes		11
Glass ware	611 casks		33, 360
Glass ware	48 tons		[]
Glue			4,365
Grease	1,154 barrels		17, 310
Grindstones			30,598
Grindstones		3,921,300	
Hats			4,500
Hair	364 packages		1,092
Hides			100 765
Hides			. \ \ 188,765
Hides			627,800
High wines			635,011
Horned cattle			257, 820
Horses			165, 660
Hops		0 100	784
Horns and hoofs			4, 304
Hardware			.)
Hardware	81 barrels		18,849
Hardware	2,010 bundles		
Hardware	890 pieces	209, 720	IJ

STATEMENT—Continued.

Articles.	Quantitie	s.	Value.
	Packages.	Pounds.	
Iron	6, 050 pieces)
Iron Iron Iron	7, 1864 tons 540 casks 197 bundles		\$301, 436
NailsLard	3,951 kegs 9,354 barrels	395, 100	15,804
Lard Lard	2,482 casks 2,577 kegs		282, 156
Lead	20,888 pigs 80 tons		81, 100
Lead pipe	18 packages	3,600	180
Leather. Leather. Lumber, black walnut	8, 343 ro ls	864, 550	758, 130
Lumber, black walnut	153 tons		14,000
Lumber, black walnut	1,511 pieces 386,967 feet	3, 706, 500	}
Oakstimber Oak timber	2,841 pieces 6,214½ tons	4, 643, 100	74,722
Ship-plank	789,142 feet	851,000	15, 780
LumberShingle bolls		245, 318,000	8, 995, 100
Laths	310½ cords 12, 643 bundles	465, 750 505, 720	3,105 2,928
Shingles	6, 099 M	1, 219, 800 26, 880	15, 245 806
Machines	73)
Machines	21 pieces		8, 260
Mattresses	182 654 boxes	5, 460	1,092
Merchandise	1, 590 packages		113, 550
Merchandise	47 bales	6-7, 300 35, 500	1,340
Nuts	978 barrels		· .
Nuts Nuts.	69 casks	160, 720	3, 444
Oats	1, 133, 811 bushels	36,281,952	340, 143
Dil	6, 023 barrels	1,818,500	151,503
Oil-cloth	23 packages	6,900	1, 380
Oil-cake	583 hogsheads	3,981,500	30,007
Oil-stones	78 boxes	3, 120	156
Paint (lead)	6,417 barrels 88 kegs	1,933,900	22, 899
Paper	5, 096 bundles	289, 200	86,016
Paper	1, 200 rolls	9,000	1,800
PlasterPeas and beans	90 tons	180,000	540
Poultry	949 barrels 300 pounds	189,800	2, 847
PoultryRailroad ties	75 boxes	4,050	399
Pork	12, 734 32, 825 barrels	3, 546, 800 10, 504, 000	4,202 393,900
Potatoes	11, 446 bushels	686, 760	6,868
Rags	33½ tons	2, 128, 100	53, 202
Reapers	289	231, 200	57,800

STATEMENT—Continued.

Articles.	Quantities	Quantities.			
211100001	Packages.	Pounds.	Value.		
Roots	202 bales	30, 300	\$1,010		
Rope	138 packages	20, 700	2, 760		
Rye	19, 435 hushels	1,088,360	11,661		
Salæratus	270 boxes	{ 193, 210	13, 455		
Sausages	46 barrels	11,500	552		
Sheepskins	7 tons	} 1,489,200	187, 900		
Sheepskins	7,376 bundles)	· ·		
Sheep	18, 906	1, 512, 480	47, 265		
Seed	3,758 barrels 277 boxes	745,4680	49,710		
Seed Seed	112 casks	140,000	73, 110		
Stone	2,172 tons	4 27/2 100	0 450		
Stone	485 boxes	4, 373, 100	8,456		
Soap	338 boxes	25, 350	1,014		
Starch	227 barrels	141,580	8, 228		
Starch Staves	3, 206 boxes	99, 144, 000	320,880		
Stave bolls	311 cords	94, 500	126		
Sundries	6,924 packages	2,077,200	311,580		
Tallow	2, 432 barrels	608,000	43, 776		
Tea	62 chests	5,580	2, 232		
Tin	66 boxes	6,600	660		
Tobacco	1,417 hogsheads 852 boxes	1,717,900	207,888		
Tobacco	18 barrels	(1,111,000	201,000		
Tongues	217 barrels	69,440	3, 255		
Tripe	219 barrels	70,080	3, 285		
Type	113 boxes	11,300	1,017 300		
Varnish	10 barrels 39 boxes	4,000 7,800	780		
Vencering	2 tons)	1		
Ware	107 packages	36, 100	1, 497		
Wine	116 boxes	8,080	2, 155		
Wine	11½ casks)	· ·		
Wheat	4,050,310 bushels 61,336 bales	240, 018, 600	2,835,217		
Wool	483 tons	12, 364, 700	3, 709, 410		
Wooden ware	3, 526 packages	473,050	14, 104		
Curriers' blocks	825	33,000	825		
Handspikes	1, 480	14,800	177		
Oars,	40 tons	2, 346, 520	69 840		
Oars	413,000 feet	2, 340, 320	63,:840		
Wagon woods	27, 288 pieces	119, 152	1,637		
Total pounds		1, 462, 923, 246	31, 889, 951		
Tons of 2,000 pounds		731, 461.1246			

STATEMENT—Continued.

Articles.	Quantities.		Value.
Articles.	Packages.	Pounds.	¥ aluc.
Ashes.	147 casks	91, 850	\$3,638
Ale			,
Ale		• • • • • • • • • • • • • • • • • • • •	
Barley			
Beef			•••••
Beef	9, 293 barrels	3, 192, 910	80,675
Beef	487 tierces)	,
Bark			*******
Bacon and hams	1		
Bacon and hams ,	11 tons	,	
Bacon and hams	833 barrels	270, 568	11,922
Bacon and hams	2 casks	(210, 500	22,000
Bacon and hams	, ombibilities	,	
Bacon and hams	Ţ		
Beeswax	A bassala	con	120
BeeswaxBeeswax	4 barrels	600	120
Brooms	, ,		
Broom-corn)		0.100
Broom-corn	200 bales	40,000	2, 400
Books	16 boxes	3, 200	400
Boots and shoes	4 boxes		160
Bladders			
Butter)		
Butter	6, 230 kegs	,	
Butter	56 barrels	[639, 800	63,700
Butter	II SO SULTOIS	,	
Butter	Į J		
Beer-pumps			
Bath brick	30,000	120,000	150
Brick	30,000	120,000	100
Brick			
Bones			
Bones			
Bristles			
Bristles			
Brandy			
Brandy			
Buffalo robes	11 bales	1, 100	550
Carpeting	0 0000000000000000000000000000000000000		48 90
Carriages			150
Cedar posts		2, 100	150
Cedar posts			
Cement			
Cheese	10 1001		
Cheese	10, 178 boxes	204,160	20,392
Cheese	2 casks) '	
Cider	11 barrels	3,300	33
Cigars	W00.		
Coal	766 tons	1,532,000	3,064
Copper	6 barrels	١.	0.000
Copper	2 masses	4,000	2,800
Copper	')	100	10
	1 sack		2, 113

Articles.	Quantities	3 .	Value.
III notes.	Packages.	Pounds.	y asuc.
Cotton			
Cranberries	545 barrels	87,200	#3 03U
Deer-skins	2 bales	280	\$3,230 100
Earthenware	2 casks	3	100
Earthenware	2 crates	1,400	132
Earthenware	1 barrel	1, 100	132
Eggs	1, 203 barrels	192, 480	9, f24
Feathers	118 sacks	5, 900	2, 360
Felt	110 buoks 11111	0,500	2,000
Fish	618 barrels	185,400	3,708
Firewood	OIO DAITCIS TTT	100,400	0,100
Flax and hemp		*	
Flaxseed)		
Flaxseed	\$ 422 sacks	42, 200	1,055
Flaxseed	1	20,000	1,000
Flour	61,735 barrels	13, 334, 760	216, 072
Fruit, green	136 barrels	21,760	136
Fruit, dried			
Furniture)		
Furniture	166 packages	33, 200	2, 200
Furniture	, ,	·	· ·
Furs	ĺ	ł.	
Furs	34 packs	3,400	3,400
Furs		'	1
Ginseng	5		
Ginseng	2 barrels	380	32
Ginseng	1)	1	ĺ
Glass	26 boxes	1,300	.52
Glass	\$ DOZES	1,000	:54
Glass ware	1)	i e	
Glass ware	} 158 packages	9,480	1,738
Glass ware	100 packages	0,100	1, 100
Glass ware	IJ		
Glue			• • • • • • • • • • • • • • • • • • • •
Grease	72 barrels	18,000	1,080
Grindstones	186	18,600	186
Grindstones)		1
Hats	12 cases	600	300
Hair		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
Hides	2,461	100 000	
Hides	8 bundles	{ 173,670	8,238
Hides)	7 770 000	4.050
High wines	485 casks	173, 800	4,857
Hogs	14,743	1,474,300	95, 829
Horned cattle	1,455	873,000	43, 650
Horses	279	223,200	16, 740
Hops	Caralas	9 000	0.00
Horns and hoofs	6 casks	3,000	96
Hardware			
Hardware	27 packages	1,310	224
Hardware	11	,	
Hardware) J		
IFOH: , , ,			**********
Iron	*****************		
lea-			**********
Alolium			**********

STATEMENT—Continued.

Articles.	Quantities	J	Value.
•	Packages.	Pounds.	
Nails	158 kegs	15, 800	\$513
Lard Lard Lard	1,269 barrels 250 kegs	342, 250	27, 380
LeadLead			
Leather	192 rolls	} 39,000	18, 156
Leather Eumber, black walnut Lumber, black walnut		3	
Lumber, black walnut Oak timber)		
Oak timber	60 M feet		8, 400
Ship-plank Lumber Shingle bolls	82 M. feet	205,000	903
Laths	245 M pieces	5.000	1, 225
Malt. Machines. Machines. Machines. Machines	3	} 9,500	950
Mattresses	1,073 packages	242, 600	56, 450
Merchandise	4 packages	200	48
Nuts	9 barrels	1,500	27
OatsOil	634 bushels	, , , , , , , , , , , , , , , , , , , ,	190
Oil	222 barrels	66, 600 4, 500	5,550 900
Oil-cake			
Oil-stones Paint (clay) Paint (lead)	22 barrels	6, 600	77
Paper	48 bundles	2,000	768
PaperPianos	3 1 ton	2, 000 2, 000	300 12
Peas and beans	1,000	4,000	415
Railroad ties	1,762 barrels	564,000	24, 204
Potatoes	2,005 bushels	120,000 2,800	1, 203 70
Reapers	1	1,000	200
Rope	55 packages	1,100	1,100 260

STATEMENT—Continued.

Articles.	Quantitie	s.	Value.	
Articles.	Packages.	Pounds.	value.	
Salæratus Salæratus Sausages	3 barrels	5,000	\$260	
Sheepskins	} 7 bundles	1,400	175	
SheepskinsSheep	1,062	1	2, 655	
SeedSeed	220 barrels	35,600	2, 461	
tone	88 boxes	4, 400	352	
Stone	20 boxes	1,500	60	
Starch	} 4 boxes	120	8	
Starch	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Stave bolls	**************			
Sundries	573 packages 236 barrels	162,000 71,000	171,900 4,248	
ranow	200 patiers	71,000		
rin	02 b - 1 - 1			
Fobacco	92 hogsheads 167 boxes	133 700	18,588	
Cobacco	10 kegs	1	4	
Congues	9 barrels	2,880	135	
Cripe				
Varnish				
Veneering				
Ware	100 packages	32, 300	1,050	
Wine.	3 boxes	300	15	
Wine				
Wheat	4, 442 bushels	1	3, 331	
Wool	3,294 bales	658,800	197, 640	
Wooden ware	40 packages	7,460	373	
urriers' blocks				
Handapikes				
ars				
ars				
Vagon woods				
Total pounds		29, 374, 879	959, 857	
Tons of 2,000 pounds		14,687.879		

STATEMENT—Continued.

Audialan	Quantities	١.	Value.
Articles	Packages.	Pounds.	value.
Ashes	1, 168 casks	584,000	\$23,360
A.Je	******		
Alcohol	1001 1	20.100	
Barley	420 bushels	20, 160	29
Beef	1 000 l	570 000	14 40
	1,803 barrels	576, 960	14,42
Beef)			
BarkBacon and hams	*******	•••••	
Bacon and hams	· ·		
Description of house			
Bacon and hams	***************	1,005,592	70, 39
Bacon and hams	•		
Bacon and hams]			
BeeswaxBeeswax			
Beeswax			,
Beeswax			
Brooms			
Broom-corn			
Broom-corn	.,		
Books			
Boots and shoes			
Bladders	******		
Butter	,		
Butter	* :	197 017	10 76
Butter	**************	137,817	13,78
Butter			,
Butter			
Beer-bottles			
Bath brick			
rick, , , , , , , , , , , , , , , , , ,			
Brick			
Bones	************		
Bones			
Bristles			
Bristles			
Brandy			
Brandy		. 	
Buffalo robes			
Candles			*******
Carpeting			
Carriages	************		
Cedar posts	************		
Cedar posts			
Cheese	*************		
Cheese		76, 683	4, 6
Cheese	************	10,000	· '
Cement Cheese Cheese Cider			
Clears		1	
Coal		.l	
Copper		1,	
Copper		1	
Copper			
Coffee			
Corn	07, 773 bushels	11, 835, 288	83, 1
Community 1		,,	,-

STATEMENT—Continued.

Articles.	Quantities	Value.	
ZII VALIGO.	Packages.	Pounds.	Y MINOS
Cotton			
Cranberries Deer-skins			
Earthenware)		
Earthenware	}	11,750	\$1,175
	156 barrels	21,806	1,240
Eggs Feathers Felt			
Fish	2 barrels	640	19
Firewood	16, 147 cords	48, 441, 000 3, 257	32,294 1,746
Flaxseed			
Flaxseed			
FlourFruit, green	170, 181 barrels	36, 759, 096	595, 633
Fruit, green		10, 629	1,062
Fruit, dried			
Fruit, dried			
Furniture			
Furniture		19,031	1,900
Furs			
Fors		3, 200	4,000
Ginseng			
Ginseng			
Glass			
Glass			
Glass ware			
Glass ware		1	
Glue			
Grease			
Grindstones ,			
Grindstones			
Hair			
Hides)		
Hides	}	13, 940	697
Hides	11, 895 gallons	107, 100	2,980
High wines	11,000 ganons :: **********************************	201,100	0,000
Horned cattle			
Horses			
Hops			
Horns and hoofs			
Hardware			
Hardware			
Hardware			
Iron			
Iron	1	1	
Iron			
11			

STATEMENT—Continued.

Articles.	Quantities	š.	Value.
	Packages.	Pounds.	
Lard	} 4,450 barrels	1,112,597	\$77,883
Lard Lead)		
Lead			
Lead pipe			
LeatherLeather	}	58,856	10, 594
LeatherLumber, black walnut	,	, , , , ,	
Lumber, black walnut			
T black wrolms			
Oak timper)		
Oak timber	1,013,849 feet	4,516,500	141,960
Oak timber	,		
Dumber, black wallut Oak timber. Oak timber. Ship-plank Lumber Shingle bolls	** *** OFO C	45 405 400	515, 856
Lumber	15, 141, 878 feet	45,425,000	515,856
Laths			
Shingles	557 M	111.400	1,382
Malt			
Machines Machines Machines)		
Machines	}	59, 553	2, 508
Machines)		
Mattresses			
Merchandise			
Merchandise			
Medicines			
Nuts			
Nuts		[
Nuts	10 405	000 000	9 145
Oats	10, 485 busness	335, 520	3, 145
Oil	***************		
Oil-cloth			
Oil-cake)		170
Oil-cake	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	22,912	1,0
Oil-stones			
Paint (clay)			
Paint (lead)			
PaperPaper	*******************	* * * * * * * * * * * * * * * * * * * *	
Paper			
Pianos			
Plaster	 		
Peas and beans	83 bushels	4,980	83
Poultry	• • • • • • • • • • • • • • • • • • • •		
Poultry	****************		
Railroad ties	9 957 havrola	700 040	27,084
Potatoes	238 huskela	122, 240	149
PorkPotatoes	NOO DUSHCIS	14, 200	
Rags			
Rags	*****************		
Roots		1	
Rope			
Rye			
Daiæratus	********************		

STATEMENT—Continued.

Articles.	Quantities	3.	Valus.
Arucies.	Packages.	Pounds.	¥ arus.
Sausages			
Sheepskins			
Sheepskins			
Sheep			
Seed)		
Seed	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ 	33, 898	\$2, 233
Seed	\ \	,	" ,
Stone	}	800 000	cce
Stone	\	333,890	667
Soap			
Starch			
Starch			
Staves		00 01# 450	201,870
Stave bolls	6,729,725, No		
Sundries		861, 035	86,000
Fallow		11,150	669
Геа			
Fin			
Fobacco			
Tobacco		190,401	11, 424
Pobacco		100,101	,
Pongues			
Pripe			
Гуре			
Varnish.			
Veneering			
Ware			
Ware			
Wine			
Wine			
Wheat	162, 669 bushels	9,760,140	113, 868
Wool			1 1
Wool		142, 721	42,81
Wooden ware			.
Curriers' blocks			
Handspikes			
Oars			
Oars			
Oars			
Wagon woods			
Total pounds		226, 422, 241	2, 089, 663
		110 011 041	
Tons of 2,000 pounds		113, 211.241	

		A manage to male
	Aggregate quanti- ties received at	Aggregate value of each arti-
	Buffalo, Dun-	cle received at
Articles.	kirk, and Ton-	Buffalo, Dun-
	awanda.	kirk, and Ton-
		awanda.
Ashes.	Pounds. 7,536 350	\$318,548
Ale	19,320	388
Alcohol	284, 040	16,569
BarleyBeef.	7,997, 184 23, 849, 150	116, 626 616, 993
Bark	12,900	645
Bacon and hamsBeeswax	7,817,552 45,050	488, 078
Brooms		9,010 3,420
Broom-corn	1,104,100	66, 279
BooksBoots and shoes	105, 200 5, 240	8, 900 3, 520
Bladders . ,	2, 100	84
Butter	3, 126, 617	312,340
Beer-pumps	100	10
Bath brick	123, 220	214
Brick	263,200	330
BristlesBristles	123, 500 2, 600	1,820 400
Brandy		1,480
Buffalo robes	195, 860	162, 850
Candles	106, 770 1, 230	21,354 1,800
Carriages	121,800	8,700
Cedar postsCement	97, 800 156, 300	858 1,042
Cheese	3, 877, 123	371,248
Cider	,	285
CigarsCoal	35, 550, 000	2,850 71,100
Copper	1, 312, 500	269,500
CoffeeCorn	5, 400	2, 757, 658
Corn-meal.	344, 568, 096 633, 960	2, 751, 656
Cotton	139, 500	13,950
Cranberries Deer-skins	285,580 130,480	11,732 46,600
Earthen ware	83,000	8,268
$\mathbf{E}_{ ext{ggs}}$,	15, 814, 766	102, 320
FeathersFelt	17, 270 10, 570	69, 080 528
Fish	3, 180, 340	63,613
Firewood Flax and hemp		32, 540 46, 224
Flaxseed	1, 341, 207 691, 120	22, 664
Flour	312,880,104	5,069,815
Fruit, green Fruit, dried	232, 560 539, 479	2,244 15,773
Furniture	53, 931	69, 500
Furs	252,500	253, 300
Glass		6,084 7,862
Glass ware	542,580	35,098
Glue	29, 100	4,365
Grindstones		18, 390 30, 784
Hats	9,600	4,800
Hair	109, 200	1,092

Articles.	Aggregate quanti- ties received at Buffalo, Dun- kirk, and Ton- awanda.	of each arti- cle received at
	Pounds.	
Hides		\$197,700
High wines		631, 637
Hogs	11, 244, 000	730,840
Horned cattle		301, 470
Horses Hops		182, 400 784
Horns and hoofs		4, 400
Hardware	211,030	19,173
Iron		301, 436
Nails		16,317
Lard Lead		\$387, 419 81, 110
Lead pipe		180
Leather	962, 406	786, 880
Lumber, black walnut		14,000
Oak timber		225, 082 15, 780
Lumber		9, 511, 858
Shingle bolls		3, 105
Laths		4, 153
Shingles		16,627
Malt		806 11,718
Mattresses		1,092
Merchandise	929, 900	170,000
Medicines		1,388
NutsOats		3, 471 343, 478
Oil		173, 657
Oil-cloth		2, 280
Oil-cake		30, 177
Oil-stones		156
Paint (clay) Paint (lead)	1,940,500	22,976
Paper	291, 200	86, 784
Pianos	11,000	2,100
Plaster		552
Peas and beansPoultry	194,780 8,050	2,930 814
Railroad ties	3,546,800	4, 202
Pork	11, 790, 240	445, 188
Potatoes	821.040	8, 213
Rags	2,130,900	53, 272
ReapersRoots	232, 200 30, 300	58,000 1,00
Rope	21,800	3,860
Rye	1,088,360	11,661
Salæratus	198, 210	13,715
Sausages	11,500	552 188, 075
Sheepskins	1,490,600 1,597,480	49, 920
Seed	815,178	54, 596
Stone	4,711,390	9,475
Soap		1,074
StarchStaves		8,236 522,750
Stave bolls		126
Sundries		

Articles.	Aggregate quanti- ties received at Buffalo, Dun- kirk, and Ton- awanda.	Aggregate value of each arti- cle received at Buffalo, Dun- kirk, and Ton- awanda.
Tallow Tea Tin Tobacco Tongues Tripe Type Varnish Veneering Ware Wheat Wool Wooden ware Curriers' blocks Handspikes Oars	Pownds. 690,150 5,580 6,600 2,142,001 72,320 70,080 11,300 4,000 7,800 68,400 8,380 250,045,260 13,166,221 480,510 33,000 14,800 2,346,520	\$48,729 2,232 237,900 3,390 3,285 1,017 300 7,547 2,170 2,952,416 3,949,866 14,477 825 177 63,840
Wagon woods	119, 152	1,637
Total pounds	1,718,720,366	34, 939, 471
Tons of 2,000 pounds	859,360.366	

Recapitulation showing the total value and quantity of all property received from and shipped to the westward, in the district of Buffalo Creek, during the year ending December 31, 1851.

	Tons of 2,000 pounds.	Value.
Received at— Buffalo Dunkirk Tonawanda	731, 462 57,138 113,211	\$31, 889, 951 4,000, 000 2, 089, 663
Totals	901, 811	37, 979, 614
Shipped at— Buffalo Dunkirk. Tonawanda	204, 536 15, 867 5, 037	44, 201, 720 5, 394, 780 1, 692, 423
Totals	225,440	51,288,923
Grand totals	1, 127, 251	89,268,53

District of Buffalo Cheek, N. Y., Custom-House, Buffalo, February 19, 1852.

WM. KETCHUM, Collector.

An account of the principal articles of foreign produce, growth, and manufacture, exported to the British North American colonies, in British and American vessels, from the district of Buffalo Creek, for the year ending December 31, 1851.

Articles.	Quantity.	AMERICAN VESSELS.	BRITISH VESSELS.	TOTAL.
AL WOADS	4,202009	Value.	Value.	Value.
Teapounds.	143,457	\$40,422	\$23,45 8	\$63,880
Coffee do	46,849	2,604	1,866	4,470
Dry goods		7,920	5,439	13,359
Medicines		3,701	1,690	5,391
Crockery		1,013	672	1,685
Toys		474	787	1,261
Tin plateboxes	73	179	672 -	851
Raisinspounds.	10,175	193	865	1,058
Lemonsboxes	155	280	463	743
Nutspounds.	4,897	357	116	473
Pepperdo	3,140	119	183	302
Oranges boxes	83	271	72	343
Pimento pounds		115	110	225
Logwooddo	4,496	31	220	251 179
Currantsdo	2,400	105	74 12	23
Cassia do	73	58	83	141
Indigodo	149 501	41	9	50
Figsdo	715	35	41	76
Madderdo		32	35	67
Gingerdo Bonnets, LeghornNo		92	355	355
Sundries		445	1,321	1,766
		58,406	38,543	96,949

WM. KETCHUM, Collector.

Custom-house, Buffalo, New York, January 1, 1852. An account of the principal articles of the growth, produce, and manufacture of the United States, exported from the district of Buffalo Creek, New York, to the British North American colonies, in British and American vessels, for the year ending December 31, 1851.

Articles.	Quantity.	AMERICAN VESSELS.	BRITISH VES- SELS.	TOTAL.
		Value.	Value.	Value.
Sundries. Manufactures of iron. Manufactures of wood. Furniture. Books and stationery. Oysters. Marble and stone.		\$51,991 25,511 43,875 47,900 12,860 8,063 9,889 2,059 1,746	\$55,563 26,891 22,970 46,345 9,884 5,724 7,278 871 2,511	\$107,554 52,402 66,845 94,245 22,744 13,787 17,167 2,930 4,257
Drugs and medicines. Glass ware Spirits Grain Cheese Fish, dry Fish, pickled	7,921 gallons 8,742 bushels 44,565 pounds 30,391 pounds 120 barrels	3,082 4,557 1,047 4,523 1,191 600 546	7,311 5,362 1,239 876 1,305 296 237	10,393 9,919 2,286 5,399 2,49 896 783
Oil	4,450 gallons 57,062 pounds 7,998 pairs 2,182 barrels 14,917 pounds 61,164 pounds	2,260 4,804 7,736 1,597 1,070 4,321	2,115 5,987 4,499 675 129 6,871	4,375 10,791 12,235 2,272 1,199 11,192
Hams and bacon Beef and pork Tobacco Sugar. Broom corn Coal.	9,638 pounds 620 barrels 49,259 pounds 76,197 pounds 50 tons 450 tons	322 2,763 6,084 2,820 158 1,637	161 4,194 4,093 1,768 1,650 1,156	483 6,957 10,177 4,588 1,808 2,793
Cordage	10,400 pounds 25 number 1,129 number 139,274 pounds	703 1,325 2,334 3,931	796 480 567 5,732	1,499 1,805 2,901 9,663
		263,305	235,536	498,841

WM. KETCHUM. Collector.

An account of the principal articles of foreign produce and manyacture, with the values and amounts of duty, entitled to drawback, exported to the British North American colonies, in British and American vessels, during the year ending December 31, 1851.

Total duty.		\$3,280 00 \$884 70 6,009 00 1,770 55 152 00 29 28 127 00 127 00 223 03 151 00 3,404 00 1,021 20 327 00 3,404 00 1,021 20 327 00 95 65 133 00 63 20 18,158 00 4,264 81
Total value.	\$3,280 00 6,009 00 152 00 127 00 4,575 00 151 00 3,404 00 327 00 133 00	
BRITISH VESSELS.	Duty.	\$658 72 168 14 1,021 20 95 65 53 20 2,026 91
BRITISE	Value.	\$2,335 3,449 3,404 3,27 133 9,648
american vessels.	Duty.	\$884 70 1,081 83 59 28 127 00 54 89 30 20
AMERICA	Value.	\$3,280 3,674 1,152 1,126 151 1,126 151
Ouantity.	•	219,080 pounds 20 qr. casks 3 hlf. pipes 2,000 20 dozen 7 cases 105 100 boxes
Artioles		Dry goods. Sugar Wine. Brandy. Dry hides. Calf-skins. Machinery. Boiler plates.

WM. KETCHUM, Collector.

Custom-House, Buffalo, New York, January 1, 1852.

An account of the principal articles, quantities, and values, imported into the district of Buffalo Creek, New York, from the British North American colonies, in American and British vessels, with the amount of duty received, for the year ending December 31, 1851.

Articles,	Quantity.	AMERICAN VESSELS.	VESSELS.	BRITISH VESSELS.	ESSELS.	TOTAL	Ľ.
		Value.	Duty.	Value.	Duty.	Value.	Duty.
Lumber	30, 244, 739 feet.		330	515	703	168	
Saw-logs.	8,990,325 feet	6,660 55	1, 332 02	17,687 90	3, 537 63	24, 348 45	4, 869 65 256 67
Timber	001			957	1,991 45	539	
Shingles	2,749,172	484 11	145 22		675 79		
Railroad iron.	5. 091 tons	238	771	941	20, 082 37	159	853
Wool	3783			717	815	990	
Sheepskins	88	886	349	283	64	273	413
Grain	36, 808‡ bushels	911		721	2,754 26	685	
Flour	974				26 24		
Fruit	2, 298 bushels	357			44 70	280	
Horned cattle	530				27 14		
Horses	114	683 803			118 05	879	
Sheep	464	452			14 86	256	
Hogs	1, 492				47 72		
Figgs	4, 894 dozen				26.18	366	
Butter	8893				55 88		
Potatoes	1, 355 bushels				51 17		
Staves	301				36 03		
Beef and pork	31 barrels				19 30		
Shingle bolls	2254 cords				76 84		
Amount carried forward		143,881 28	36, 289 90	233, 613 73	53,849 70	377, 495 00	90, 139 60

STATEMENT-Continued.

		~	. Doc.	11~.
زر	Duty.	\$90,139 60 83 86 203 38 745 13	91, 171 97	92, 357 69
TOTAL	Value.	\$377, 495 00 419 32 677 94 2, 483 71	381, 075 97 5, 668 52	386, 744 50
ESSELS.	Duty.	\$53,849 70 77 68 34 44 738 98	54, 700 80 625 30	55, 326 10
BRITISH VESSELS.	Value.	\$233,613 73 388 42 114 80 2,463 21	236, 580 16 2, 639 81	239, 219 97
VESSELS.	Duty.	\$36,289 90 6 18 168 94 6 15	36, 471 17	37, 031 59
AMERICAN VESSELS.	Value.	\$143, 881 28 30 90 563 14 20 50	3,028 71	147, 524 53
Onantito.		684, 241 p 86 1-5 13		
A with los	ALUNIOS.	Amount brought forward Laths. Scrap iron Scow-boats	Various articles not enumerated in the above	Total.

WILLIAM KETCHUM, Collector.

DISTRICT OF BUFFALO CREEK, NEW YORK, Buffulo, January 3, 1852.

Statement of Canadian produce imported into the district of Buffalo Creek, New York, for warehouse and for transportation in bond to the port of New York, for exportation to foreign countries, during the year ending December 31, 1851.

A	rticles.	Quantity.	Value.	
Flour. Barley. Butter. Ashes. Wool. *Canvass. Furs. *Port wine. *Sherry wine.	bushels barrels bushels pounds barrels pounds yards barrels barrels casks	88,316 10,763 987½ 11,725½ 300 9,017 3,170 2 9 3 hogsheads and 1 cask	\$56,901 34,007 354 964 5,283 1,848 326 180 133 179	95 49 65 48 03 40 42 68
				100,489

^{*} Imported for consumption.

WM. KETCHUM, Collector.

Custom-house, Buffalo, N. Y., March 18, 1852.

Statement of Canadian produce imported into the district of Buffalo Creek, New York, during the year ending December 31, 1851, (being free of duty.)

Articles.	Quantity.	Value.
Horsesnumber Horned cattledo Sheepdo Grass seedsbushels. Personal effects	36 2 123 2,856	\$3,158 155 342 6,873 9,744 20,272

WM. KETCHUM, Collector.

Custom-house, Buffalo, N. Y., March 18, 1852

Statement of the foreign and coasting vessels, tonnage, &c., entered and cleared from the port of Buffalo, New York, for the year ending December 31, 1851.

		ENTERED.			CLEARED.			TOTAL.	
	No. of vessels.	Their ton- nage.	Men.	No. of vessels.	Their ton- nage.	Men.	No. of vessels.	Their ton- nage.	Меп.
Foreign vessels from and to foreign ports American vessels from and to foreign ports	601 170	72,212 30,100	5, 330 1, 897	593 205	71, 241 31, 927	5,284 2,202	1, 194	143, 453 62, 027	10, 614 4, 099
Total in foreign trade	77.1	102, 312	7,227	798	103, 168	7,486	1,569	205, 480	14,713
American coasting vessels	3,762	1, 433, 777	59, 705	3, 719	1,448,273	60, 374	7, 481	2, 822, 050	120,021
Total of American vessels in foreign and coasting trade	3, 932	1, 463, 877	61,602	3,924	1,480,200	62, 576	7,856	2,944,077	124, 178
Total of foreign and coasting trade	4, 533	1, 536, 089 66, 932	66, 932	4,517	1, 551, 441	67,860	9,050	3, 087, 530	134, 792

_____ 6,930 tons.

trading	December 31, 1851.
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tonnage o)
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Statemen	

	Number.	Tonnage.	Crew.
*Steamers and steam propellers enrolled and licensed at the district of Buffalo Creek	44	22, 438 23, 619	903 878
Total of vessels enrolled and licensed in the district of Buffalo Creek, New York	148 63 503	46, 057 29, 193 78, 176	1,781
Total	714	153, 426	
* There are now being built, at this port, eight steamers and steam propellers, of the aggregate tonnage of. And one sail vessel.			6,700 230 6.930 tons.

DISTRICT OF BUFFALO CREEK, NEW YORK, Custom-house, Buffalo, February 19, 1852.

WILLIAM KETCHUM, Collector.

A statement of the vessels and tonnage which entered into, and cleared from, the British North American colonies, at the district of Buffalo Creek, New York, for the year ending December 31, 1851, distinguishing British from American, and steum from sailing vessels.

		Sailing.	Tons.	22, 568
	BRITISH. Steam. Steam.	No.	297	
			Tons.	48, 672
OUTWARD.		ž	No.	968
OUTW		Sailing.	Tons.	13, 774
	AMERICAN. Steam. Sai	No.	134	
		team.	Tons.	18, 152
		ž	No.	7.1
	.18Н.	Sailing.	Tons.	23, 755
		Steam. Sa	No.	306
	BRIT		Tons.	48, 456
INWARD.		St.	No.	295
NA NA		Sailing.	Tons.	11,705
	AMERICAN,	αά	No.	88
	ANER	Steam.	Tons.	18, 493
		Ω	No.	72

DISTRICT OF BUFFALO CREEK, NEW YORK,

Buffalo, January 3, 1852.

WILLIAM KETCHUM, Collector.

No. 10.—DISTRICT OF PRESOUR ISLE.

Port of entry, Erie, Pennsylvania; latitude 42° 08′, long tude 80° 06′; population in 1830, 1,465; in 1840, 3,412; in 1850, 5,858.

This district embraces the whole coast-line of the State of Pennsylvania on Lake Erie; it contains about forty miles of shore, and has three shipping points—Erie, the port of entry, North East, and Elk Creek; the two latter being principally engaged in the shipment of staves and lumber. Erie is a beautiful town of three thousand inhabitants or upward, finely situated on Presque Isle bay, on the southern shore of Lake Erie. It is distant from Buffalo 80 miles, SSW.; from Cleveland 100, E.; from Harrisburg 270, NW.; from Washington, D. C., 343 NW. The town stands on a bluff commanding the harbor, formed by the projection of the peninsula of Presque Isle, the mouth of which was formerly closed by a difficult sand-bar. This has been, however, partially removed, and piers constructed by the United States government, by which means the channel has been so far deepened that most of the larger steamboats and vessels, which navigate the lake, now readily enter it.

The peninsula of Presque Isle has been gradually converted into an island, the wash of the lake currents having severed the isthmus; and, the harbor having two entrances, it is expected that it will be permanently deepened, and the bar at its mouth by degrees swept away. The depth of water on it, at present, is from eight to ten feet, and within

the harbor much more.

It was in this harbor that Perry's fleet was built, within seventy days from the time when the trees, of which it was constructed, were yet standing in the forest. Thence he sailed to give battle, and thither he brought back the prizes of Lake Erie, the relics of which may be yet seen rotting and half submerged, near the navy yard.

The naval depôt is still kept up at this place, and here the one or two small vessels which represent that arm of our service on the lakes are accustomed to go into winter quarters. But the commerce of the

port is very limited.

A canal from Erie to Beaver connects it with one of the finest coal regions of the State, Pennsylvania, and this coal, being bituminous and of fine quality, is used by nearly all the lake steamers. This causes many of them to put in here, when they would otherwise continue on the direct route; for Erie is ninety-seven miles, more or less, from Buffalo, and, lying at the southern end of Presque Isle bay, is from fifteen to twenty miles off the direct course from Buffalo to Cleveland. The agricultural resources of the country circumjacent and inland are not yet fully developed, and of consequence contribute but little to the commerce of the place. It will be seen that last year the supplies of flour for consumption here were received from other lake districts; but it is certain that this state of things cannot long continue in such form, inasmuch as the mineral and manufacturing resources of the district are in rapid progress of development; and the agricultural productions must rapidly mature under such stimulus as that given by liberal prices and a constant home demand. It cannot be doubted that, before long—the demand for agricultural produce in the mining and manufacturing dis-

12

tricts already being considerably in advance of the production of many articles-attention will be so strongly attracted to the resources of the soil as to insure not only an adequate supply for home use, but an ample surplus for exportation.

The importations for 1851, consisting principally of assorted merchandise, flour, fish, and manufactures of iron, amounted to—

	coastwiseforeign	
Total in	portation	1,983,368

The exports consist of wool, lumber, wood, bark, glass, stoves, bariron, coal, and merchandise received by canal, with a small quantity of grain—the whole amounting to the following aggregate:

Exports	coastwise	\$2,207,582
66	foreign	15,415
Total ex	portation	2,222,997

The entire commerce of the port amounts to a total value of \$4,206,493. The character and quantity of some of the chief articles of export, and their comparative increase and decrease, are exhibited in the annexed tables for the series of years as named:

Articles.	1845.	1846.	1851.
Coaltons Leatherpounds	8,507 46,661	21,534 123,370	86,000 19,396
Wooldo	65,435	476,922	486,303
Butterdo	} 1,041,000	1,257,000 {	989,062 1,416,695
Stovesdo Railroad and barirontons	250	2,052	1,071,694 360
Glasspounds	18,500	521,500	573,499
Hemptons		409	15
Pig-irontons	3	800	944
Iron and nailsdo	83	612	661 1,492
StavesM LumberM	1,168 3,324	1,056 $3,901$	12,899
Tallowpounds	0,000	36,200	31,700
Tobacco do		333,602	
Beefbarrels	550	882	
Barleybushels	4,448	7,581	11,822
Castingstons	550	555	
Cornbushels	853	10,107	14,389
Cottonpounds		5,679	
Eggsbarrels.	25	541	0.050
Flourdo	550	14,563	2,050
Featherspounds	250	56,760	

STATEMENT—Continued.

Articles.	1845.	1846.	1851.
Ginsengpounds		14,075	
Pork and bacondo	52 0	$2,\!546$	110
Oatsbushels	4,800	16,300	54,041
Whiskeybarrels	115	35	2,088
Ashescasks	2,184	2,272	323

The Erie extension canal has been in operation since 1845, and the effect is seen in the increase of business. It is worthy of note, that during some seasons produce goes southward, and at others northward.

The licensed and enrolled tonnage of this port is 7,882 tons.

The tables following this report exhibit the commerce of the district in detail, with value, tonnage, entrances and clearances, complete.

CANADIAN TRADE IN 1851.

Imports S419 00 \$54 00 In British vessels 16 00 4 00 4 00	CHAIDIAN TRADE IN 100		
Free goods—plaster in stone. In American vessels Tons. 671 \$1,342 In British vessels 839 1,678 Total imports Exports—domestic produce and manufacturs. In American vessels \$12,385 In British vessels 3,080 Total imports in American vessels \$14,146 Total imports in British vessels \$14,724 Tonnage inward.		\$419 00	\$54 00
Tons. Value. \$1,342 In British vessels		435 00	8S 00
Tons. Value. \$1,342 In British vessels	Free goods—plaster in ston	P.	
In American vessels 671 \$1,342 In British vessels 3.020 **Exports—domestic produce and manufacturs In American vessels \$12,385 In British vessels 3,080 Total imports in American vessels \$14,146 Total imports in British vessels \$14,724 **Tonnage inward.	2 res goods presser in the	Tons.	Value.
3.020	In American vessels	671	\$1,342
Total imports. \$ 3,4:5 Exports—domestic produce and manufacture. In American vessels. \$12,385 In British vessels. 3,080 Total imports in American vessels. \$14,146 Total imports in British vessels. \$14,724 Tonnage inward.			
Total imports. \$ 5,4±.5 Exports—domestic produce and manufacture. In American vessels. \$12,385 In British vessels. 3,080 Total imports in American vessels. \$14,146 Total imports in British vessels. \$14,724 Tonnage inward.			
Exports—domestic produce and manufacture. In American vessels. \$12,385 In British vessels. 3,080 Total imports in American vessels. \$14,146 Total imports in British vessels. 4,724 Tonnage inward.			3.020
Exports—domestic produce and manufacture. In American vessels. \$12,385 In British vessels. 3,080 Total imports in American vessels. \$14,146 Total imports in British vessels. 4,724 Tonnage inward.	Total imports		P / 1 / 5
In American vessels. \$12,385 In British vessels. 3,080	-		• • • • • • • • • • • • • • • • • • •
In British vessels. 3,080 Total imports in American vessels. \$14,146 Total imports in British vessels 4,724 Tonnage inward.	Exports—domestic produce and ma	ınufactur:.	
In British vessels. 3,080 Total imports in American vessels. \$14,146 Total imports in British vessels 4,724 Tonnage inward.	In American vessels		\$12,385
Total imports in American vessels. \$14,146 Total imports in British vessels 4,724 Tonnage inward.			•
Total imports in American vessels. \$14,146 Total imports in British vessels 4,724 Tonnage inward.			
Total imports in American vessels. \$14,146 Total imports in British vessels 4,724 Tonnage inward.			15,465
Total imports in British vessels			
Total imports in British vessels	Total imports in American vessels		\$14.146
Tonnage inward.	Total imports in British vessels		4.724
Tonnage inward.			
Tonnage inward.			18,870
No Tong	Townson inward		
	10mage maura.		No. Tons.
American, steam	American, steam		
" sail	" sail		
British, sail			,

S. Doc. 112.

Outward	l.		1 7.	m
American, sail			No. 33	Tons, 3,205
British, sail.			6	721
·				
Lake receipts coastwise at the port of	Erie, Penn	sylvania,	in 188	51.
Merchandise and sundries	6,682,600		\$1,8	00,000
Flour	9,839	barrels		34,436
Water-lime	984			1,430
Fish	4,646	66		27,876
Salt	21 246			21,246
Salt	10,200	bags		1,275
Railroad iron	1,816			81,700
Railroad spikes		kegs		1,692
Limestone		cords		1,610
Hops	6 6, 5 33	pounds		6,653
Iron ore	57 0	tons		1,995
Total			1,9	79,913
Shipments coastwise at the port of 1	Erie, Pennsy	ylvania, ir	ı 1851	
Wool	466 909		Ø 1	45 000
Butter	486,303	pounds		45,890
Cheese	989,062	66		23,633
Leather	1,416,695 19,396	46		35,001
Starch		66		4,849
Stoves and hollow ware	102,706 $1,071,694$	66		6,162
Iron, bar, &c.	720,672	66		37,539
Merchandise and sundries	2,876,000	66		21,620 00,000
Glass	351,985	46		12,319
Glass ware.	221,514	66		51,206
Oil-cake	116,000	66	•	696
Oil-cloth.	37,450	66		7,490
Salæratus.	9,662	66		483
Flax	30,959	66		1,857
Malt	77,800	66		3,112
Tallow		66		2,536
Fire-brick.	•	M		620
Shingles	621			1,552
Corn		bushels		7,194
Oats	54,041	66		16,213
Barley	11,822	66		5,911
Dried fruit	894	66		1,788
Rye	10,442	66		5,221
Coal	82,000		9	28,000
Pig iron	944	66		23,600
Railroad spikes	356	66		21,360
Pork		barrels		1,100
Cider	906	2011019		618

Eggs	110 barrels	\$1,760
Rye flour	812 "	2,436
Flour, "fancy"	1,237 "	5,566
Whiskey	1,430 "	8,580
Apples	1.018 "	2,036
Hìgh wines	658 "	3,948
Ashes	323 casks	12,920
Nails	6,097 kegs	24,388
Lumber	12,899,762 feet	128,997
Oars	831,220 "	33,248
Bark	262 cords	524
Paper	4,500 reams	11,250
Sheep pelts	705 bundles	16,920
Staves	1,492,728 pieces	29,854
Hoop-poles	758,500 "	7,585
Total		2,207,582
Clearances coastwise	1,561 3	312,200 tons.
Entrances coastwise	1,561 3	12,200 "

No. 11.—DISTRICT OF CUYAHOGA.

Port of entry, Cleveland, Ohio; latitude 41° 30′, longitude 81° 40′;

population in 1830, 1,076; in 1840, 6,071; in 1850, 17,034.

This is a most important district, second in the value of its commerce to none west of Buffalo. It embraces all that portion of the south coast of Lake Erie which lies between the western State line of Pennsylvania and the Black river, a distance of one hundred miles.

It contains, beside Cleveland, the port of entry, many minor ports of considerable importance, such as Conneaut, Ashtabula, Cunningham's

Harbor, Madison Dock, Fairport, and Black River.

This district has for its back country one of the finest and most varied agricultural districts of the whole lake-shore region. The face of the land is soft and rolling, the soil in great part warm and fertile, and especially adapted to the cultivation of fruits and vegetables, and to the

growth of all the cereal crops.

Among its most important and valuable exports are wheat, corn, and flour; large quantities of fruit, both green and dry, are sent off annually, together with pork, beef, butter, cheese, and vegetables, in all directions; but chiefly eastward by the lake, with the exception of butter and cheese, large quantities of which go southward by the Ohio canal, destined for Cincinnati, and thence for New Orleans and other southern cities.

A railway passing through the entire length of the district on the lake shore is nearly completed, which is destined eventually to become a portion of the continuous chain from Buffalo to Chicago. One railway, connecting Cleveland with Columbus and Cincinnati, and another forming a communication with Pittsburg, are already completed; and many branches of importance, scarcely second to the main lines, are far advanced already in construction.

Of canals, Cleveland has two of great value, one connecting her with Portsmouth, on the Ohio, and another uniting the line at Akron with Beaver, on the Ohio—virtually a canal from Cleveland to Pittsburg, inasmuch as loaded canal boats are continually towed by small steam-

ers from the mouth of Beaver river to the latter city.

With three different lines of internal communication direct to the harbors on the coast, most of them among the best on the lakes, and these from the centre of the richest of the western States, it will readily be perceived that the district of Cuyahoga must be the theatre of commercial transactions, which have no small influence upon exchanges of produce and merchandise in the great marts of the seaboard. Conneaut, the easternmost port of the district, is about twenty miles west from Erie, situated upon a river of the same name, which affords a good harbor. No returns exhibiting the commerce of this port, separately, have been received; but it is very considerable, as Conneaut is the entrepot for the landing of supplies and the shipping of produce for a large and fertile agricultural region, not only of the adjacent country in Ohio, but of an important section of Pennsylvania.

The next port to the westward is Ashtabula, similarly situated on a small stream bearing its own name, forming a good harbor, with facilities equal to the requirements of the place. The town stands back some two or three miles from the port, upon a rise of ground, forming

a singularly eligible site.

The commerce of this port for the year 1851 consisted principally of butter, cheese, wool, leather, beef, pork, ashes, fruit, lumber, staves, &c., for exports, amounting to the value of \$450,291 And of merchandise, agricultural implements, furniture, hides,

and a little wheat and flour, for imports...... 504,211

Making the total declared value of the trade of this port.... 951,502

The tonnage owned at Ashtabula consists of two brigs, of 280 tons each, several schooners and one scow, making an aggregate of 1,741 tons, employing seventy-six men in their navigation.

Cunningham's Harbor is a port at present of small moment, except

for the shipment of staves and lumber.

Madison Dock is a pier built out into the lake, in front of the town of Madison, about eighteen miles west from Ashtabula, and twelve east from Fairport, for the accommodation of the neighborhood in shipping staves, lumber, and produce. No separate estimates of its commerce

have been kept for the past year.

Fairport stands on the Grand river, which furnishes one of the most eligible harbors in the West, and is quite sufficiently capacious for the traffic of any western port. It is thirty miles west from Ashtabula, and thirty east from Cleveland, and is merely a shipping and receiving port—Painesville, on the ridge, three miles inland from the lake, being the principal mart and place of business, as well as the county seat of Lake county. It is to be regretted that no particular returns have been received from this place, indicating the amount of its commerce, tonnage, &c., as it is a port of no little consideration, and holds

the key to a fertile agricultural district, inhabited by an industrious and

enterprising population.

Black River, the only remaining minor port of this district, lies about twenty-eight miles west of Cleveland, on the river from which it takes its name. Its commerce is of no great importance at present. It enjoys good harbor facilities for the shipment of staves and lumber, which are its principal exports, and for the receipt of such supplies as are in demand.

The city of Cleveland, port of entry of this district, and capital of Cuyahoga county, is situated 130 miles NW. from Pittsburg; 146 NNE. from Columbus; 200 by water from Buffalo; 130 from Detroit; and 359 from Washington.

The history of the growth of this city is one of the marvels of a mar-

vellous age and region.

Its population in 1799 consisted of a single family. In 1825, it had risen to 500; in 1830, to 1,000; in 1834, to 3,400; in 1840, to 6,071; and at this moment there are 25,000 souls in the city proper, and at least 7,000 more in Ohio City, across the harbor—virtually one city with itself, though under a different corporate government.

It is at this day one of the most beautiful cities, not in the West only, but in the United States; built, for the most part, on an elevated plain, above the Cuyahoga, commanding a fine view of the lake and river; planted with groves of forest trees, and interspersed with fine squares

and public places.

As a place of business it is of high importance, and its future growth can scarce fail to be commensurate to its unparalleled rise; nor are its inducements as a residence inferior to its commercial advantages.

Its harbor is one of the best on Lake Erie, spacious and safe when once entered, but, like all the lake harbors, liable to the formation of obstacles by the accumulation of sand at the mouth of the river which forms it. This bar can be kept down only by continual dredging, and hence the constant demand on Congress for appropriations to this end.

The harbor has depth, for a considerable distance, sufficient to accommodate the largest vessels which navigate the lake; it is formed by the projection of two piers, one on each side of the river, for twelve hundred feet into the lake, which are two hundred feet apart, faced with substantial masonry. There is a light-house on the high bank on the shore of Lake Erie, and a lower one near the end of one of the piers at the harbor's mouth.

The commerce of Cleveland, apart from the rest of the district, is not shown by the returns received; and in such returns as have been sent in—showing the business of the district—the valuation of the very same articles is set at a rate so much lower than in the other districts. as greatly to undervalue the real commerce of Cuyahoga, and to exhibit

it at the greatest possible disadvantage.

It has consequently been judged best to raise the valuation of articles to the same rate adopted in the other districts, so as to produce and exhibit a uniformity of values in all the districts; since, whichever be the correct valuation, the higher rate is favored and adopted by the majority; and it can prejudice no one district or port of entry to the wrongful advancement of another, if a uniform rate be adopted.

The necessary alterations being, therefore, made in the figures, the commerce of Cuyahoga district, as represented by Cleveland, its port of entry, is as follows:

Imports coastwise	\$22,804,159 12,026,497	
Total coastwise		34,830,656
Imports foreign. Exports do.	360,634 284,937	
Total foreign		645,671
Total commerce, for 1851, of Cuyahoga	a district	35,476,327
Whole number of vessels from foreign ports-	 392	

 Cleared in 1851
 247

 Cleared in 1850
 215

--- difference: gain, 32.

The following table will show the comparative business of Cleveland in some leading articles of its trade for a series of years, as named. All these are exports:

Articles.	1847.	1848	1851.
Flourbarrels.	697,553	472,999	656,040
Wheat bushels.	2,366,263	1,267,620	2,141,913
Cornbushels.	1,400,332	690,162	906,653
Oatsbushels.	32,000	254,707	68,464
Porkbarrels.	27,289	28,338	13,580
Beefbarrels.	8,246	10,321	26,944
Butterpounds.	917,090	1,927,300	1,550,900
Lardpounds.	480,160	1,140,500	1,730,700
Coaltons.	8,242	11,461	81,500
Ashesbarrels.	2,052	440	1,830
Whiskey barrels .	12,067	28,450	38,774
Tallow pounds.	140,000		198,000
Baconpounds.	810,900		1,164,600
Stavesthousands.	1,378	773	789
Woolpounds.	575,933		3,939,100

To this table may be added an export for the year 1851, unknown to former years, of live hogs, 80,000.

It will be remembered that 1847 was the memorable year of unprecedented demand for produce, arising out of the famine in Europe, which caused the exportation of nearly all the produce held in the country, so that any difference and apparent diminution on the subsequent years must be ascribed to no falling off for 1848 and 1851, but to the excess of demand for 1847.

The valuation of the commerce of Cleveland for the three years above named, is thus stated:

	1847.	1848.	1851.
ImportsExports	\$4,518,997 9,728,399	\$7,003,388 6,713,244	\$22,804,159 12,026,497
Total	14,247,369	13,716,632	34,830,656

Whole number of entrances coastwise—	
For 1851	1,981
For 1850	1,381
Increase	600
Whole number of clearances coastwise—	
For 1851	1,963
For 1850	
Increase	581
Total foreign trade—	
For 1851	.\$645,671
For 1850	
Increase	96,122

It should be remarked, however, that this increase is more than overbalanced by the quantity of railroad iron imported from England by the St. Lawrence via Canada. So that, in fact, as regards direct trade with Canada, in lieu of an increase, there is actually a considerable decrease, more especially in the exports of domestic produce.

Below will be found full details of the trade of this district, by the

returns so far as received.

The licensed and enrolled tonnage of this district for 1851 was 36,070 tons-11,355 steam, and 24,615 sail.

Canadian trade in 1851.

Imports.—In American vessels	Duty collected. \$52,444 42,154
360,634	94,598
Exports domestic produce and manufacture— In American vessels	
	284,937
Total imports and exports— In American vessels In British vessels	\$372,296 273,275 645,571
Abstract of duties received from imports or merchandise in A foreign vessels during 1850.	Imerican and
1850.—Amount of duties received from imports in American vessels. Amount of duties received from imports in foreign vessels.	\$25,960 24 41,554 01
Total amount received in 1850	67,514 25

Statement of the foreign trade of the district of Cuyahoga, showing the number of vessels, tonnage, and number of crew, engaged during the years 1850-'51.

Years.	Number of vessels.	Tonnage.	Crew.
1850.			
American vessels entered Foreign vessels entered	192 100	25,484.75 11,832.00	1,150 587
	292	37,316.75	1,737
American vessels cleared Foreign vessels cleared	125 90	14,881.25 10,327.00	719 541
	215	25,208.25	1,260
1851.			
American vessels entered Foreign vessels entered	220 102	28,812.67 11,770.00	1,431 707
	322	40,582.67	2,138
American vessels cleared Foreign vessels cleared	153 94	17,760.69 10,545.00	942 639
	247	28,305.69	1,581

Entrances and clearances in 1850-'51.-Coasting trade.

1850.—Number	of vessels	entered	1,381
Do	do	cleared	1,378
1951.—Number	of vessels	entered	1,981
\mathbf{Do}	$d\mathbf{o}$	cleared	1,963

An exhibit of the coasting trade of the district of Cuyahoga, Ohio, during the year 1851.

EXPORTS.

Species of merchandise.	Quantities.	Value.
Wheatbushels.	2,141,913	\$1,499,339 10
Corn do	906,653	362,661 20
Oats do	68,464	17,800 64
Flourbarrels.	656,040	2,132,130 00
Porkdo	13,580	190,120 00
Beeftierces.	15,011	165,121 00
Beefbarrels.	4,428	26,568 00
Larddo	4,314	69,024 00
Lard kegs	8,731	69,848 00
Butterdo	13,575	122,175 00
Butterbarrels.	967	17,406 00
High winesdo	24,805	210,842 50
Whiskeydo	13,969	111,652 00
Green applesdo	2,926	4,052 00
Dried applesdo	2,763	22,104 00
Tallowdo	660	9,900 00
Saltdo	7,131	7,131 00
Fish	1,455	10,185 00
Lard oildo	1,263	37,890 00
Eggsdo	5,686	34,116 00
Paintdo	8,280	74,520 00
Seeddo	944	7,552 00
Ashescasks.	1,830	45,750 00
Woolbales.	26,261	1,969,575 00
Glassboxes.	22,930	45,860 00
Glass waredo	8,775	26,235 00
Docasks.	451	13,530 00
Cheeseboxes.	40,069	120,207 00
Starchdo	3,397	10,191 00
White leadkegs	1,176	2,352 00
Nailsdo	27,824	97,384 00
Powderdo	518	1,813 00
Candlesboxes.	2,350	14,100 00
Axesdo	125	1,500 00
Bacon	149	2,235 00
Tobaccodo	1,000	12,000 00
Dohhd	803	28,105 00
Broom-cornbales.	650	7,800 00
Bar-irontons	2,681	160,800 00
Pig irondo	1,515	45,450 00
Grindstones do	2,674	13,370 00
Ragsdo	1,956	5,877 00

S. Doc. 112.

Exports—Continued.

Species of merchandise.	Quantities.	Value.
Coaltons	81,500	\$224,125 00
Refined copperdo	101	38,380 00
Oil-cakedo	160	1,920 00
Baconcasks.	1,294	64,700 00
Lumber M feet.	1,116	10,044 00
Walnutdo	165	2,310 00
Staves	789	14,202 0
Leather rolls.	2,613	78,390 00
Stoves and furniture	644	3,864 00
Stonewaregallons.	155,148	12,411 0
Featherssacks.	920	32,200 0
Green hidespieces.	4,447	13,341 0
Sheep-peltsbales.	886	22,150 00
Fire brick	150	3,300 0
Wrapping paperreams.	7,616	26,656 0
Live hogs	80,000	400,000 0
Dressed hogsNo	6,604	69,342 0
HorsesNo	630	50,400 0
CattleNo	2,889	86,670 00
SheepNo	6,220	12,440 00
ChickensNo	5,300	530 0
Mattresses	169	2,535 0
Hempbales.	357	5,335 0
Fursdo		80,000 0
Merchandisetons	3,681	2,944,800 0
Total value		12,026,497 0

IMPORTS.

Species of merchandise.	Quantities.	Value.
Saltbarrels.	90,607	\$90,607 00
Water-lime do	8,383	10,478 75
Lake fishdo	22,294	144,911 00
Lumber	12,263	122,630 00
Shingle-wood	929	8,361 00
ShinglesM.	3,988	8,975 50
Railroad irontons.	7,383	366,650 00
Railroad spikeskegs.	4,666	27,866 00
Stoves	540	3,210 00

S. Doc. 112.

Imports—Continued.

Species of merchandise.	Quantities.	Value.
Pig irontons	706	\$19,768 00
Bar irondo	498	20,990 00
Castingsdo	161	9,660 00
Crude plasterdo	1,412	4,236 00
Bloom irondo	212	10,600 00
Lehigh coaldo	514	6,168 00
Copper oredo	815	285,250 00
Marbledo	1,213	42,455 00
Molasses barrels.	884	14,144 00
Sugardo	5,082	86,394 00
Dohhds.	775	50,375 00
Powderkegs.	9,535	28,635 00
Nailsdo	2,980	10,430 00
White leaddo	7,050	13,254 00
Leathersides.	4,550	13,650 00
Dorolls	1,120	33,600 00
Dairy saltsacks.	50,947	5,194 70
Coarse saltbarrels	1,663	2,078 75
Shoesboxes.	394	19,700 00
Hopsbales.	159	12,720 00
Green applesbarrels.	8,277	16,554 00
Cranberriesdo	545	3,270 00
Siscawit oildo	100	3,000 00
Potatoesbushels.	11,000	5,500 00
Oysters barrels.	607	3,642 00
Doboxes.	2,066	37,188 00
Patent pailsdozen	358	718 00
Burr-blocks pieces.	1,148	1,435 00
Locomotives	22	176,000 00
Limestone	784	4,704 00
Fire-wooddo	424	848 00
Laths M.	1,991	2,986 50
Merchandise, sundriestons.	25,083	20,066,400 00
Total value		22,804,159 00
<u> </u>	1	

No. 12.—DISTRICT OF SANDUSKY, OHIO.

Port of entry, Sandusky city; latitude 41° 22', longitude 82° 42';

population in 1850, 5,087.

The district of Sandusky extends from Black river westward, including the ports of Vermillion, Huron, Milan, Sandusky, Venice, Fremont, Portage Plaster Bed, and Port Clinton, being a distance of fifty miles lake coast, and some fifty more of bay and river. In natural advantages for commercial progress, probably this district is surpassed by no other on Lake Erie west of Buffalo Creek. Within its borders are several navigable rivers and one of the finest bays in the west, capable of furnishing anchorage to any number of vessels, at which they may safely ride during the most severe gales, and to which they gain access during the prevalence of almost any wind. The whole of the back country on which it rests is fertile and rich in agricultural resources, and sends forth annually large quantities of surplus produce over the different railways and canals by which it is penetrated.

Vermillion, the easternmost of all the ports in this district, is situated on the lake shore at the mouth of the Vermillion river, about ten miles distant from Black river, and as many more from Huron. It has no remarkable features which require particular notice, but is simply a place for exchange of produce against merchandise, for its shipments to other markets. This statement exhibits the commerce of the port as follows:

Imports Exports	\$116,295 196,712
Total	313,007
In 1847, the valuation was	\$377,000

Huron, the next port in course to the westward, is situated on Huron river, about ten miles east from Sandusky, and has a good harbor, with this exception—that in some seasons there are accumulations on the bar at its mouth, which require removal in order to make access to it easy.

A ship-canal has been constructed from this point to Milan, a distance of eight miles, by which vessels ascend, and load at the latter point. A railway was projected from this point to intersect with the Sandusky and Mansfield railroad; but it is not yet in progress. The

commerce of Huron is valued as follows:

Exportslmports	
Total	1,458,831
In 1847, the valuation amounted to nearly	\$3,000,000

Milan is not, to speak with exactitude, a lake port; but an account of its business is necessary to a full computation of the lake trade, as no

returns of its business are supposed to be taken by the collector at Huron, through which port all vessels pass in going up and returning from Milan. This commerce, according to the canal-collector, amounted last year to—

ExportsImports	
Total	1,126,901

As no separate accounts of this trade appear to have been kept in 1847, it is probable that they were included with those of Huron.

Sandusky, the port of entry, lies on the south shore of a most beautiful bay of the same name, about five miles from its mouth, and contains about 8,000 inhabitants. This bay is about twenty miles in length and five in width, forming a shelter large enough to give anchorage to the whole lake marine, with an average depth of twelve feet water. The bar at the mouth of the bay is sometimes enlarged, or its shape changed, by the spring-currents. A straight channel has, however, been dredged through it, at the expense of the city, in which there is about eleven feet of water.

Sandusky city is the capital of Erie county, Ohio, and lies 60 miles west from Cleveland, 110 miles north from Columbus, 414 from Washington—directly facing the outlet of the bay into Lake Erie, at three miles distance, of which it commands a fine view. The city is situated on an inexhaustible quarry of fine building-stone, of which

many of the best buildings are erected.

The Bad river and Lake Erie railroad connects this city with Cincinnati and the Ohio, the passage from city to city occupying about ten hours. This road runs through one of the most beautiful and opulent agricultural regions in all the West, literally overflowing with the cereal produce of a young and productive soil. The Sandusky, Mansfield and Newark railway connects it with Newark, passing likewise through a rich portion of the State, and crossing the Cleveland and Columbus road, by means of which it has communication with both those cities. The advantageous relations of this city in regard to the central portions of the State, together with its superior harbor facilities give it an active commercial aspect.

The deputy collector has furnished returns showing the imports

coastwise to amount-

000000	
In 1851, to	\$15,985,357 6,459,659
Total trade coastwise	22,445,016
Canadian imports, 1851	272,844 99,088
Total commerce in 1851	22,816,948

Total in 1851	\$22,816,982 12,111,034
Increase	10,705,948
Number of arrivals in 1851 Number of departures in 1851	
	3,988

The total quantity of wheat shipped from Sandusky to Canadian ports amounted—

In 1851, to	1,800,000	",
Making a total equal to	2,661,407	66.

The following comparative table will show the total exports from Sandusky for the following consecutive years:

Articles, &c.	1849.	1850.	1851.
Wheatbı	ishels. 829,210	1,552,699	1,922,069
Flourb	arrels. 56,686	78,902	147,951
Cornbi		288,742	712,121
Oats	" 9,881	18,634	84,198
Porkb	arrels. 15,781	8,073	5,564
Hamspe	ounds. 10,800	287,187	175,900
Butter	" 610,951	754,588	382,340
Cheese	3,660	545,685	8,100
Lard	" 695,881	860,798	229,712
Tallow	" 274,712	176,379	115,337
Ashes	casks. 1,908	1,568	2,082
Whiskeyb	arrels. 3,553	2,778	3,978
High wines	" 2,491	5,278	11,916
Woolpo	ounds. 1,435,360	1,669,677	1,690,557
Tobacco	" 183,259	316,000	549,046
Furs	" 42,800	61,126	109,125
Hogsnu	mber 11,707	34,751	105,026
Salæratusp		30,000	20,156
Arrivals		1,610	1,998
Clearances		1,546	1,990
Duties collected		\$20,806	\$33,834

Fremont, formerly called Lower Sandusky, is situated on Sandusky river, about thirty miles from Sandusky city, and is accessible to ves-

sels of light draught. Its commerce is gradually on the increase, as will be seen by the accompanying statements furnished by the deputy collector:

Imports	\$359,419 314,530
Total for 1851	673,949 217,843
Increase	456,106

Venice, at the mouth of Cold creek, on Sandusky bay, three miles above the city, is the place of shipment for the products of two large flouring mills; the shipments in 1851 were 34,771 barrels, valued at \$121,698.

Port Clinton, the only port in this district not already noticed, is situated on the lake about ten miles west from Sandusky, and having but a narrow peninsula of land back of it, is not a place of extensive trade. The statement of the deputy collector fixes the value of

Besides the above-mentioned regular ports, there are numerous islands included within the limits of this district, among which are Kelly's, Cunningham's, Put-in Bay, and others, some of them affording the best shelter to disabled vessels, in severe gales, to be found anywhere on the lakes. It was in the immediate vicinity of this group, and in fact in the midst of it, that Perry's engagement was fought, and

the killed found a burying place on the island last named.

The commerce of these islands is not large. Wood, fish, with some vegetable food, are exported and supplied to vessels, and supplies for the inhabitants are imported; but no definite returns on which to estimate the value of their trade have been received.

The following tables will exhibit the trade of the district in detail, by which it will be seen that the total commerce was—

In 1851 \$22,511,570 In 1850 14,907,788

S. Doc. 112.

Years.	Entrances.	Tons.	Men.	Clearances.	Tons.	Men.
1851 1850	2, 843 2, 647	540, 171 472, 620	19, 565 18, 459	2, 840 2, 590	537, 979 464, 807	19, 433 18, 095
Increase	196	67, 551	1, 106	250	73, 172	1, 338

The following table will exhibit a few of the principal articles of export from the important ports in the district during the years 1847 and 1851:

	Sand	usky.	Hu	on.	M	ilan.	Vermi	llion.
Articles.	1847.	1851.	1847.	1851.	1847.	1851.	1847.	1851.
Wheat bbls. Corn bush. Flour bbls. Oats bush. Pork bbls. Beef do Ashes do Whiskey do Lumber ft. Staves No.	162,265 113,066 150,000 10,150 610 1,817 2,815	712,121 147,951 84,198 5,564 1,084 2,082 3,978 266,000	11,114 7,082 100,000 22,789 2,644 2,653 1,255	266,222 1,973 65,423 248 1,390 492 1,574 698,574	Included in Huron for the year 1847.	258,778 220,264 1,763 56,033 439 297 535 1,402 718,000 1,456,500	40,000 1,000 2,000 20,000 1,000 500 200 700,000 700,000	37,362 39,895 6,864 6,860 394 107 101 75,000 1,133,000
There are en	rolled_i	n the S	Sandusk	y distri	ct 73	tons of	steam,	
and 4,785 to For 1847, tota								
and 4,785 to For 1847, tota								4,322
	ue of do	mestic ea	Incre	ase	listrict	of San	•••••	4,858 4,322 5 86 Dhio, to
For 1847, tota Abstract of value 1849.—In A	ue of don Canad	mestic ea da, duri n vesse	Incre	ase	listrict years	of San	dusky, C	4,322 5 86
For 1847, tota Abstract of value 1849.—In A	ue of do Canad America British v	mestic ea da, duri n vessel	Incre	ase	istrict years	of San	dusky, C	24 00 050 00
For 1847, tota Abstract of value 1849.—In A In H	ue of don Canad America British v Total	mestic ed da, duri n vessels -	Incre	ase	listrict years	of Sand	dusky, C \$1 2,9 3,0 3,0	24 00 074 00

Canadian trade in 1851.

Duties collected
Imports—In American vessels \$56,859 \$2,244 In British vessels 18,769 3,515
Total*75,628 5,759
[* In this is included 2,286 tons of railroad iron imported via Quebec; duty paid on 758 tons, \$5,076; balance, 1,528 tons, in bond. There was imported into the district of Sackett's Harbor, in British vessels, not included in the returns, 2,045 tons 6 cwt. 1 qr. 19 lbs. railroad iron; value \$49,476 31; duty \$14,842 90.]
Exports—In American vessels
99,088
121,672 bushels of wheat included in the above; the whole amount principally provisions.
Total imports and exports—In American vessels
Total
Tonnage.
Inward. Outward. American vessels 4 steam 1,494 10 sail. 1,396 53 sail. 4,760 3 steam 336 British vessels 2 steam 280 9 sail. 1,300 15 sail. 746 Total 74 22
Total

Imports coastwise into the district of Sandusky, Ohio, during the year ending on the 31st December, 1851.

Species of import.	Quan	Value.	
Merchandise	21,011	tons	\$10,505,500
Express packages	900	"	3,900,000
Railroad iron	17,486	"	699,440
Spikes	480	"	38,400
Machinery	$352\frac{1}{2}$		28,260
Stoves and castings	$1,\!241$	"	198,560
Pig iron	192	"	7,680
Iron, assorted	449	"	44, 900
Sheet iron	73	bundles	282
Nails	716	kegs	2,506
Tin plate	81	boxes	889
Threshing machines	2		700
Steam-engines and boilers	3		3,800
Scrap iron	40	tons	400
Locomotives	12		96,000
Coal.	2,745	tons	11,100
Salt	52,738	barrels	55,902
Dairy salt	4,224	bags	520
Fish.	7,538	barrels	52,766
Beer	2,058	46	12,348
Water-lime	1,502	"	2,255
Cranberries	1,099	"	6,594
Lumber	6,809	M feet	68,090
Shingles	11,075	M	27,687
Shingle-wood	440	cords	5,328
Fire-wood.	4,587	"	10,320
Cheese	383,889	boxes	23,033
Wagons	10		800
Stone ware	6,140	gallons	614
Cedar posts	913		114
Ground plaster	2,690	barrels	4,040
Furniture	74,900	pounds	7,490
Whiskey	603	barrels	4,824
Ploughs	314		2,512
Apples, green	11,284	barrels	22,568
" dried	90	66	317
Butter	279	kegs	2,790
Pianofortes	362		72,400
Grindstones	75	tons	1,350
Coaches and carriages	85		17,000
Laths	3,976	M pieces	7,952
Sand.	70,000	bushels	1,400
	220,000	feet	17,600
Timber	9,000	1001	90
Hoop-poles	3,000		

S. Doc. 112.

Imports coastwise—Continued.

Species of import.	Quantity.		Value.
MarbleBarley	44 256	tons	\$3,525 113
Lard	359		2,154
Powder	950	"	3,600
Malt.	206	bushels	93
Tea	196	chests	4,800
Oil	60	barrels	1,920
Empty barrels	560		280
Potatoes	240		120
Shingle machine	1		125
Brick	30,000		120
Miscellaneous goods	254	tons	1,062
Sundries	677	articles	324
			15,985,357

Exports coastwise from the district of Sandusky, Ohio, during the year ending 31st December, 1851—destined mostly for the eastern market.

Species of export.	Quantity.		Value.	
Wheat	2,621,224	bushels	\$1,808,645	
Corn	1,282,509	66	513,004	
Oats	239,936	66	71,981	
Clover seed	203	barrels	2,842	
Timothy seed	740	66 -	2,810	
Flax seed	1,859	"	6,971	
Hickory nuts	643	"	964	
Express packages	250,000	pounds	500,000	
Flour	194,682	barrels	681,386	
Beef	3,038	"	21,286	
Pork	7,196	"	86,352	
Whiskey	5,552	"	36,088	
High wines	12,598	66	91,326	
Alcohol	589	"	12,958	
Beans	11	"	38	
${f Eggs}$	2,962	66	14,810	
Cranberries	4	"	24	
Ground plaster	4,146	"	6,219	
Crude * "	4,414	tons	132,420	
Sweet potatoes	93	bushels	93	
Ashes, pot	3,214	casks	67,494	

Exports coastwise—Continued.

Species of export.	Quantity.		Value
Apples, green	190 86,452	barrels	\$380 3,458
Peaches, dried	16,408	66	1,969
Butter	382,340	"	3,823
Lard	267,337	"	18,714
Tallow.	157,127	"	13,370
Feathers	36,351	"	10,905
Wool	2,340,771	"	795,861
Beeswax.	3,295	"	824
Ginseng.	3	barrels	100
Leather (in rolls).	51	rolls	2,550
" (unfinished)	106,768	pounds	21,353
Furniture	188,700	* //	18,870
Merchandise	\$10,093		162,019
Rags	656,101		14,963
Cheese	8,100	,,	486
Oil-cake	247,026	•66	2,470
Candles	17,807	"	1,780
Corn-meal	113	barrels	175
Tobacco	549,046	pounds	54 ,905
Hams	187,100	podilos.	11,226
Broom-corn.	21,565	"	1,078
Furs.	128,425	"	128,425
Live hogs	72,399	• • •	434,394
Dressed hogs	32,827		295,448
Flaxseed oil.	1,331	barrels	42,592
Black-walnut lumber	425	M feet	5,37£
Staves (pipe, hhd. and butt)	5,947	M	148,675
Hides	2,256		6,204
Sheep-pelts	1,035	bundles	36,225
Deer-skins	54	66	2,700
Empty casks	1,084		813
Potatoes.	411	hushels	205
Salæratus.	20,156	pounds	907
Bristles.	5	barrels	42
Railroad iron	42	tons	1,680
Railroad chairs.	197	"	15,760
Pig iron	11	"	880
Lard oil	3	barrels	108
Beef-tongues	33	barrers	495
Lumber	2,046	M feet	20,460
Ship-plank	252	66	3,528
Shingles	5 30	M	1,325
Grindstones	1,068	tons	19,224
ATTENDED ! * * * * * * * * * * * * * * * * * *	4,000	mito	10,22

Exports coastwise—Continued.

Species of export.	Quantity.		Value.	
Ship-knees	60		\$60	
Railroad ties	2,400		480	
Buggy wagons	· 2		178	
Flagging stones	50	M feet	3,000	
Block stones	1,000	tons	8,000	
Stoves and furniture	150	66	10,500	
Glass ware	5	boxes	50	
Medicine	1	box	30	
Wood	2,877	cords	3,409	
Fish	1,494	barrels	8,735	
Hoop-poles	139,000		1,390	
Timber	35	' ' T '	175	
Ox-marrow	5	barrels	90	
Neatsfoot oil	10	66	350	
Miscellaneous	423,227	pounds	58,765	
Total value			6,459,659	

Custom-house, Sandusky, Ohio, January 7, 1852.

No. 13.—DISTRICT OF MIAMI, OHIO.

Port of entry, Toledo; latitude 41° 38', longitude 83° 35'; popula-

tion in 1840, 1,222; in 1850, 3,829.

This district has a shore-line of fifty miles in extent, comprising that portion of the lake and river coast lying between Port Clinton and the dividing line between Michigan and Ohio, and includes the ports of Manhattan, Toledo, Maumee, and Perrysburgh. The former is a port of but little importance, furnishing no returns. Maumee city and Perrysburgh are both situated on the Maumee river, within a few miles of Toledo, and might, perhaps, be considered with more propriety suburbs of that place, than independent ports of entry. The commerce of Perrysburgh is returned by the collector as follows:

Imports	\$264,755 41,055
Total	305,810

That of Maumee city is ascertained from the same source to be—
Imports
Exports

46,764

Toledo is, in one respect, more advantageously situated for an extensive lake commerce than perhaps any other western port, from the fact that it has two canals, both connecting it with the Ohio, terminating in its port: one the Miami and Erie canal to Cincinnati, and the other the Erie and Wabash canal, intercommunicating with Evansville, Indiana, and traversing the entire Wabash valley, which thereby renders the richest portion of the entire State of Indiana tributary to its traffic. This circumstance, when taken in connexion with the fact that railway transportation has hitherto been unable to compete on equal terms with water for the inland carriage of heavy freight, such as agricultural produce, renders it absolutely certain that, at no very distant date, Toledo must become the grand depot for the lake trade of the valleys of the Miami and Wabash; and, inasmuch as the course of trade for productions of that sort is annually tending more and more to the northward, this is almost tantamount to saying that it must needs be ultimately the great meeting-place and mart for the immense products of all northwestern Ohio and of all northeastern Indiana, these valleys being beyond all doubt the very richest and most fertile portions of the respective States, which cannot be surpassed, if equalled, by any in the Union for their agricultural wealth.

Toledo is well situated on the west side of the Maumee river, at a short distance from the head of Maumee bay, in Lucas county, Ohio, 134 miles NNW. from Columbus and 464 from Washington. Its present population is estimated at about 5,000 individuals, and is con-

stantly on the increase.

One line of railroad is already completed, connecting Toledo with Chicago, known as the Southern Michigan; and another—the lake shore road, which will form an intercommunication with Buffalo, Cleveland, Sandusky, and the other eastern marts and harbors on the lake—is in rapid progress; and will, it may be confidently expected, be finished within a twelve-month, or a little over, which will of course add a new stimulus to the business of Toledo. A third road is also projected through the Miami valley, in the direction of Cincinnati.

These advantages, together with the possession of an excellent harbor and good arrangements for freighting on the lakes, have already so far developed the commerce of this port, as to give the most gratifying

assurances in regard to its future progress and prosperity.

The commerce of Toledo, so far as can be ascertained from the scanty returns which have been sent in by the collector, are as follows for the years 1851 and 1847; no comparative statement concerning other years being attainable, from the absence of reports:

Total coastwise for 1851...... 30,835,580

Imports, foreign, for 1851	\$99,311
Total commerce, 1851	30,934,891
Entrances	ons 418,892 " 419,942
Total	838,834
The total commerce of the district, including all the powas—	
Imports	\$23,301,741 7,985,724
Total	31,285,465
The same for the year 1847 amounted only to— lmports	\$4,033,985 4,034,524
Commerce of 1851	\$31,285,465 8,068,809
Increase on four years	23,216,656
The total enrolled and licensed tonnage for 1851, is 3,286 Entrances for 1851 in the whole district	tons 437,996 " 438,449
CANADIAN TRADE IN 1851.	
Imports.	
In American vessels	duty \$2,129 do 5,390
Totals	7,519

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187

Exports.

In American vessels\$2,940
In British vessels
Total exports
Total imports and exports—
In American vessels
In British vessels
Total Canadian trade92,773
m · 1
Tonnage inward.
4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4
American, sail
British, sail 7
British, steam 2 404 "
2,080
Tonnage outward.
American, sail
British, steam
Dritish soil 7 934 6
British, sail
1 400
1,488

Statement showing the principal articles, their quantity and value, imported coastwise into the port of Toledo during the year ending December 31, 1851.

Articles.	Orantita	Value.
Articles,	Quantity.	value.
Assorted merchandisetons	23,260	\$18,608,000
Iron, bar and bundledo	273	18,200
Iron, railroaddo	9,415	423,675
Iron, pigdo	113	4,520
Steel pounds.	18,928	2,082
Nailskegs.	6,067	19,354
Spikes	10,099	50,499
Castings, ironpounds.	187,558	7,502
Tin boxes	2,176	20,760
Axes do	720	7,920
		•
Stoves No.	4,199	50,386
Stove trimmingspounds	20,292	13,190
Hardwaretons	557	389,900
Hollow warepieces	3,619	7,238
Scilespackages	420	27,300
Machinerydo	583	52,470
Stonewaregallons	16,650	1,665
Glassboxes	3,249	6,498
Cheesedo	2,898	7,249
Coffeebags	. 647	9,058
Sugarbarrels	3,900	70,200
Molassesgallons	13,380	47,888
Tobaccopounds	33,810	5,071
Hides, Spanish	16,380	2,293
Hopsbales	23	2,760
Powder kegs	20,242	80,968
Spiritsbarrels	481	26,455
Oildo	132	3,960
Candyboxes.	677	2,031
Apples, greenbarrels	6,364	12,728
Apples, drybushels	1,215	1,823
Barleydo	27,505	13,752
Maltdo	3,672	2,295
Ale and beerbarrels	1,554	9,424
Water-limedo	1,828	2,742
Plasterdo	467	467
White fish and troutdo	10,499	73,493
Mackereldo	10,499	· · · · · · · · · · · · · · · · · · ·
Saltdo		1,800
Saltbags.	102,032	107,032
Leather rolls	79,080	9,885
Boots and shoes	1,110	33,300
	6,098	243,920
White lead	1,837	6,429
Coal, bituminoustons	1,829	7,316

S. Doc. 112.

STATEMENT—Continued.

Articles.	Quantity.	Value.
Coal, Lehighton	s 770	\$5,775
PianosNo		44,000
Wagonsdo	43	2,580
Carriages, &cdo.		6,60
Railroad passenger carsdo		20,000
Do. locomotivesdo.	20	160,000
Do. freight carsdo.		71,250
Threshing machinesdo	61	16,775
Reapersdo	75	15,000
Iron safesdo	22	2,750
Household goodspackage		12,224
Marbleton		63,972
GrindstonesNo		697
Lumberfee		142,052
Shingles		15,693
LathsNo		6,423
Pine logsfee		7,000
Horses head		6,060
Cattledo		5,075
Sheepdo		4,420
Express goodspackage	s	1,910,000
Sundries		17,755
Total value		22,987,772

Statement of the principal articles, their quantity and value, exported coastwise from the port of Toledo during the year ending December 31, 1851.

Articles.		Quantity.	Value.
			· · · · · · ·
Corn	bushels	2,775,149	\$1,110,017
Wheat	do	1,639,744	1,082,231
Flour	barrels	242,677	849,369
Bacon	casks	14,150	706,910
Hams		4,096	5,898
Pork		38,658	502,554
Lard		27,165	434,640
Lard oil	do	6,078	182,340
Live hogs	No	23,547	117,735
Live cattle		744	22,320
Live horses	do	301	27,090
Live sheep	do	1,759	3,518
Beef		7,296	69,312
Tallow.		1,884	28,260

S. Doc. 112.

STATEMENT—Continued.

Articles.	Quantity.	Value.
Greasepounds	396,400	\$19,820
Linseed oilbarrels.	147	3,822
Oil-caketons	3,026	45,390
HidesNo	7,125	21,375
Sheep-peltsbales	193	5,190
Furs (estimated)		105,000
Oats bushels	64,441	19,332
Beans. do.	199	398
Barley do.	675	337
Corn-meal bags	814	1,221
Seed barrels	4,856	
Potatoes bushels	17,796	29,136
	*	8,105
Cranberriesbarrels	678	4,068
Cheese boxes	768	2,304
Butter kegs	3,119	37,428
Candlesboxes	2,454	12,270
Beeswaxpounds	36,200	9,050
Eggsbarrels	568	3,408
Fishdo	325	2,275
Sugarhogsheads	758	56,850
Molassesbarrels	388	5,432
Nutsbushels	130	97
Tobaccohogsheads	1,216	42,560
Tobaccoboxes	1,953	23,436
Spiritscasks	21,934	186,439
Leather rolls	2,642	79,260
Woolbales	2,839	212,925
Feathersdo	1,090	38,150
Cottondo	394	3,940
Broom-corn do	156	1,872
Hempdo	725	10,875
Ashes	4,847	121,175
Lumber M feet.	2,134	32,011
StavesM.	2,504	62,621
Ragspounds	31,453	943
Roofing paperrolls.		
Carriages No.	1,669	5,841
Varnishbarrels.	23	2,300
Pennermint oil of	56	4,368
Peppermint, oil ofpounds Merchandisedo	400	500
Merchandisedodo	403,513	161,405
Express goodspackages	• • • • • • • • • • • • • • • • • • • •	917,500
Sundriesdo	9,081	302,800
Wash-boardsdozen	785	2,355
Total value		7,847,808

No. 14.—DISTRICT OF DETROIT.

Port of entry, city of Detroit; latitude 42° 20′, longitude 83° 02′;

population in 1830, 2,222; in 1840, 9,102; in 1850, 21,019.

The district of Detroit has the most extensive coast-line of any lake district not bordering on Lake Superior, and embraces all that portion of Michigan known as the Southern Peninsula. Commencing at the western line of Ohio, it extends thence northerly along Lake Erie, up the Detroit river, Lake St. Clair and St. Clair river, to Lake Huron, up that lake northwestwardly to the island and straits of Mackinaw, and southwardly, with a little westing, to the Indiana line, not far from the head of Lake Michigan—a distance, following the sinuosities of the shores, which does not fall very far short of a thousand miles.

It has fifteen ports, none of which have any present importance, with the exception of Detroit and Monroe; although it is more than probable that within a few years several of them may rival the most promising harbors and ports in the West. There is, probably, no State in the Union which surpasses Michigan in its commercial advantages, or which, if properly fostered and developed to the extent of its vast internal resources, it will not ultimately equal or exceed in all the actual realities of progress and prosperity. She has more natural harbors, involving but little expense or labor to render them available in all seasons to all classes of shipping, than any other State bordering on the lakes. The extent of country enclosed within her extensive coast-line comprises 39,856 square miles, some of it the best and most fertile land of the West, watered by numerous lakes and streams—many of the latter navigable, and very extensively used for lumbering purposes, which is the principal occupation and interest of the inhabitants of the northern section of the State.

Among these rivers are the Raisin, Huron, Rouge, Clinton, Black, Saginaw, Thunder Bay, Manistee, White, Maskegon, Grand, Kalamazoo, and St. Joseph's—the six last named flowing into Lake Michigan, and the rest into Lakes Erie, St. Clair, and Huron, and the Detroit and

St. Clair rivers.

Although scarcely one third of the above area is under successful cultivation, yet Michigan is already known, throughout the country, as a large exporter of the choicest wheat and flour. It may indeed be said, without fear of contradiction, that for two seasons past the quality of Michigan wheat and flour has been, on the average, equal if not superior to that of any other State; her exports of flour amounting to 500,000 barrels, and of wheat to 1,000,000 bushels, in round numbers.

Monroe, the easternmost of her ports, is a terminus of the southern Michigan railway on Lake Erie, about 40 miles south of Detroit, and is situated at the lower falls of the river Raisin, with a population of about 5,000 souls. There is a daily line of steamers connecting it with Buffalo, and the harbor is accessible for vessels of the largest class.

Unfortunately, no special returns, showing the commerce of Monroe, are at hand. It is, however, a point rapidly increasing in importance, and must be eventually the depot for a very large amount of trade. The returns from the district of Detroit, which have been received, show the coastwise business only of that port; so that Gibraltar and Trenton,

on the Detroit river; Mount Clemens, on the Clinton river; Algonac, Newport, St. Clair, and Port Huron, on the river St. Clair; Saginaw, on Saginaw bay; Thunder Bay islands, in Lake Huron; Grand Haven, St. Joseph's, and New Buffalo, on Lake Michigan, are all of them un-

represented.

This is a circumstance deeply to be regretted on several accounts. These are the outlets of the principal lumber regions of the western States, and supply the prairies of Illinois, as also St. Louis, and other southern cities, with nearly all their lumber and shingles; besides sending vast quantities to Detroit, Sandusky and Buffalo. The St. Clair, Sandusky and Maskegon lumber is as extensively known in the West as being of superior quality, as is the pine of Canada to the eastward. Again, these portions of the district are so very rapidly increasing in importance that their influence will ere long cause itself to be most sensibly felt in the commercial cities of the West. Lastly, there is still a very large tract of public land in various parts of this district, in the hands of the government, for the most part well watered and well timbered, which sooner or later will become of immense value.

In past years these government lands have been trespassed on, by persons engaged in the lumber trade, to a very great extent; but the confiscation of several vessels, with their cargoes, has, it is to be hoped,

effectually put an end to these depredations.

There is a very valuable business also carried on in the ports of Gibraltar and Trenton in the shipment of staves; and at Port Huron, Newport, and St. Clair, on the St. Clair river, ship-building is prosecuted to a considerable extent and to very decided advantage; one of the largest steamers which navigates the lakes, of 1,600 tons burden, with an engine of 1,000 horse power, having been constructed on these waters.

In this district are situated the St. Clair flats, the greatest natural obstacles to the free navigation of the great lakes, with the exception of the rapids on the lower St. Lawrence, the Falls of Niagara, and the Sault Ste. Marie. These shallows lie nearly at the head of Lake St. Clair, about twenty-five miles above the city of Detroit. The bottom is of soft mud, bearing a lofty and dense growth of wild rice, with a very intricate, tortuous, and difficult channel winding over them, in many places so narrow that two vessels cannot pass them abreast; nor

is it possible to navigate them at night.

There would be no difficulty whatever, and but a most trivial expense, as compared with the advantages which would accrue from removing this barrier, in dredging out a straight channel of sufficient depth to admit vessels of the largest draught. Nor is there any work more urgently and reasonably solicited from Congress by the men of the West, nor any more entirely justified by every consideration of sound economy and political wisdom, or more certain to produce returns incalculable, than the opening the flats of the St. Clair, and carrying a canal around the Sault Ste. Marie. These improvements would at once perfect the most splendid and longest chain of internal navigation in the world, extending above two thousand miles in length from Fond du Lac, at the head of Lake Superior, N. latitude 46° 50′, W. longitude 92° 20′, to the mouth of the St. Lawrence river, in 46° 20′ N. latitude, 65° 35′ W. longitude.

It is not, in fact, too much to say—so imperatively are these improvements demanded by the increase of commerce, and the almost incalculable mineral resources of northern Michigan—that within a few years they must and will be carried into effect, at whatever cost and

expense of labor.

Above St. Clair river the first port is Saginaw, situated at the outlet of a river of the same name into the great buy of Saginaw, larger itself than a large European lake, setting up into the land southwesterly from Lake Huron. This bay, with the exception of Green bay, is the largest in all the West, but is rarely visited by any vessels except those trading directly thither, unless driven in by stress of weather, since it lies some considerable distance off the direct line from Buffalo to Chicago.

The port, however, imports all the supplies necessary for the lumbering population, and exports what may be stated, on a rough calcula-

tion, at 10,000,000 feet of lumber annually.

At the Thunder Bay islands little business is done beyond the shipment of the produce of the fisheries; and to what extent these are carried on in that locality, owing to the total absence of all returns, it

is impossible even to hazard a conjecture.

On Lake Michigan, the ports of Grand Haven, St. Joseph's, and New Buffalo, are places of shipment of produce, and importation of supplies to a reasonable extent; while Grand Haven, Maskegon, and Manistee, are all great exporters of lumber. The commerce of the district, independent of Detroit, which is the principal depot for the commerce of Michigan, cannot fall short of \$8,000,000, and may exceed it, though it is not possible to state it with precision, for want of the needful returns.

Detroit, the port of entry of this district, and capital of the county, is a finely built and beautiful town, laid out with streets and buildings which would be considered worthy of note in any city, partly on an ascending slope from the river Detroit, partly on the level plateau some eighty feet above it. The city now contains about 27,000 inhabitants, who lack no luxury, convenience, comfort, or even display, which can be attained in the oldest of the seaboard cities, though itself the growth but of yesterday. It is situate 302 miles west of Buffalo, 322 eastnortheast of Mackinaw, 687 west, by land, of New York, and 524

northwest of Washington.

The river Detroit is, at this point, about three quarters of a mile in width, dotted with beautiful islands, and of depth sufficient for vessels of a large draught of water. The shores on both sides are in a state of garden-like cultivation; and, from the outlet of the river into Lake Erie, to its origin at Lake Huron, resemble a continuous village, with fine farms, pleasant villas, groves, and gardens, and excellent roads, as in the oldest settlements. The soil is rich and fertile; the air salubrious, and the climate far more equable and pleasant at all seasons than on the seaboard. The regions around are particularly suited for the cultivation of grain, vegetables, and all kinds of fruit: many varieties of the latter, which can be raised only with great care to the

eastward, as the apricot for example, and some of the finest plums, growing here almost spontaneously. The waters teem with fish, and the woods and wastes with game, which have recently become an article of traffic to the eastern cities in such enormous numbers as to threaten the extinction of the race, and to call for the attention of the citizens to the due regulation of the trade, as regards time and season.

Being not only the oldest but the largest town in the State, occupying a commanding situation, enjoying all the advantages which arise from a central position, a magnificent river, and a harbor of unsurpassed capacity and security, Detroit has arrived at a stand of com-

mercial eminence from which it can now never be dislodged.

The Michigan Central railroad extends to Chicago, via New Buffalo and Michigan city, a distance of 258 miles; and the Pontiac railroad some 20 miles to Pontiac. There are also about 120 miles of plank roads running from the city to several flourishing towns, in various rich portions of the State, as Ypsilanti, Utica, and other thriving places.

The commercial returns from Detroit are of the most conflicting character; but the following results are believed to approximate as nearly to a true estimate of the actual commerce of the port as can be

attained:

Imports, coastwise		416,377 961,430
Total	19,	377,807
Imports, foreign		
Total	:	213,575
Add the estimated value of the commerce of the other ports	19,	591,482
of the district—say	8,	000,000
Total commerce of the district	27,	591,482
The tonnage of the port of Detroit alone was—		
Clearances, for 18512,611 tons 920,690 Entrances, " "2,582 " 905,646	men	41,931° 41,546
Total for 18515,193 " 1,826,336 " " 18504,420 " 1,439,883	"	83,477 64,098
Increase, 1851 773 " 386,453	"	19,379

The entrances and clearances from the other ports cannot be reached, wing to the usual deficiency of returns from this region.

In 1847, however, the business of the district was represented as fol-

lows, in the various ports, and by these some idea may be formed of their comparative value:

Place or port.	Value of exports.	Value of imports.
Detroit	\$3,883,318	\$4,020,559
Monroe	1,139,476	817,012
Trenton	8,425	66,000
Brest	12,000	
St. Joseph	833,917	517,056
Grand Haven	265,068	220,000
Kalamazoo and Black rivers	100,738	60,000
Ports north of Grand Haven	58,250	45,000
Saginaw	45,702	18,000
Port Huron	159,400	100,000
St. Clair	59,320	30,000
Newport	14,772	20,000
Algonac	37,820	15,000
Mt. Clemens	168,711	123,200
Total	6,786,957	5,991,827
Add railroad iron	6,991,827	1,000,000
Grand total	13,778,784	6,991,827

Another great advantage will shortly accrue to Detroit from the opening of the Great Western railway, about to be constructed through Canada, which will bring it into direct communication with the New York and other eastern routes; as well as from the completion of the Lake Shore road. These will bring the city within twenty-four hours' journey of New York and the Atlantic ocean.

Such are the giant strides with which the fortunes of the West,

through energy and enterprise, are pressing on to the ascendant.

The enrolled and licensed tonnage of the Detroit district for 1851 was 40,320 tons, of which 21,944 were steam and 18,376 sail.

Canadian trade in 1851.

Imports.—In American vessels		Duty collected. \$6,215
In British vessels	62,685	16,819
	98,540	23,034
Exports.—In American vessels		\$74,072 40,960
		${115,032}$

Total imports and exports.—In American vessels	
213,57	
Tonnage.	
Inward—American, 2 steamers	23
68 sail	31
Total tonnage)4
Outward—American, 14 steamers	54
British, 315 steamers	
Total tonnage	<u> </u>

Imports coastwise into the port of Detroit during the year 1851, with their value.

Art	ticles.	Quantity.	Value.	
	tons	18,000	\$14,500,000	
	do	30,106	150,530	
	do	1,120	28,000	
High wines	barrels	800	8,000	
	number	220	1,320	
	bales	81	4,050	
Barley	bushels	$2,\!120$	848	
Marble	pairs	831	8,310	
	barrels	4,119	20,594	
	do	1,827	5,938	
	do	2,117	2,117	
	boxes	101	250	
	barrels	721	14,840	
	do	2,301	8,408	
	do	40,207	40,207	
	kegs	3,180	15,582	
	feet	2,000	800	
	cords	421	4,210	
	boxes	5,011	10,022	
	thousand	331	6,620	
	thousand feet	1,190	11,900	
	number	237	9,480	
Paper	reams	1,531	3,662	
Sheep	number	913	2,393	
Hides	do	1,141	2,282	
	bushels	3,753	2,450	
	bundles	900	18,000	
Plaster	barrels	7,900	7,900	
Do(crude)	tons	1,340	6,700	
Sugar	hogsheads.	350	35,000	
Castings	pounds	910,000	36,400	
Iron	bars and bundles	24,304 403	$121,\!520$ $6,\!045$	
Molasses	barrels	500		
Oll	do		15,000	
	rolls	1,100	22,000 9,300	
	barrels	620	9,300 284	
	pounds	7,110	2,700	
	cords	900 18,300	2,700 73,200	
Naus	kegs		2,200 2,200	
Apples	barrels	1,100	2,200 93,07 4	
	bars	8,340		
	bags	18,700	2,500	
Bacon	pounds	10,000	700	
Uider	barrels	100	300	

Imports into the port of Detroit during the year 1851-Continued:

Artic	les.	Quantity.	Value.
Coffee. Tobacco. T'ea. Crude potash Corn Stoves Shingles Wagons Stoneware	hogsheads chests tons bushels number thousand number	1,140 61 610 211 4,500 3,300 240 43 58,480	\$14,592 6,100 12,200 12,661 1,800 33,000 240 4,300 5,848
	Total		15,416,377

Exports coastwise from the port of Detroit during the year 1851, with their estimated value.

	Articles.	Quantity.	Value.
Flour	barrels	460,325	\$1,453,596
Lumber	thousand feet.	30,717	245,736
Wheat	bushels	897,719	618,403
Shingles	thousand	12,944	25,888
	do	8,445	21,102
Wool	bales	2,977	178,620
Pork	barrels	1,704	20,448
	bales	420	42,000
	half barrels	4,150	12,450
	number	1,484	2,968
	bushels	48,546	14,563
Beef	barrels	56 8	4,544
	casks	248	12,400
	pounds	8,000	640
	rolls	529	26,450
Rags	tons	61	3,660
Salæratus	boxes	51	255
Coal	tons	960	4,800
Nails	kegs.	34	136
	bundles.	1,231	3,693
	number	413	500
	tons	343	10,290
	barrels.	135	3,240
Cranberries	do	1,479	4,437

Exports from the port of Detroit during the year 1851—Continued.

Art	icles.	Quantity.	Value.
	barrels	170	\$170
	bushels .	378,070	151,228
	barrels	1,667	4,989
	thousand.	10,856	217,120
	casks	2,207	55,175
High wines	do	2,783	27,830
Fish	barrels	7,336	43,996
Shingle bolls	cords	693	4,851
Salt	barrels	281	281
Potatoes	bushels.	3,518	1,055
Whiskey	barrels	1,359	10,872
	do	179	358
Hogs	number.	2,375	23,750
Merchandise	packages.	12,090	453,300
	barrels.	70	420
Brick	thousand.	893	1,179
Clover seed	barrels.	129	2,580
Malt	bushels.	150	172
Copper	tons	277	110,800
Cattle	head	256	7,680
Butter	kegs	1,106	13,212
Horses	head	85	5,100
Bark	cords	135	405
Wash-boards	dozen	50	300
	tons	1,510	7,550
Broom-corn	bales	135	1,350
Apples	barrels .	4,888	4,888
	Total		3,961,430

Statement of freight carried over the Michigan Central railroad during the year ending December 31, 1851, in tons and thousandths.

Articles.	To Detroit.	Interior circu- lation east.	Total east.	From Detroit.	Interior circulation west.	Total west.	Grand total.
Apples, 140 lbs, ner bb]	11.940	7.910	19.850	143.490	50.715	194.205	214.055
Ale and beer, 300 lbs. per bbl	1.275	29.475	30.750	145.950	65.400	211.350	242.100
	336.966		336.966				336.966
Barley, 48 lbs. per bushel	83.864	35.363	120.227		14.090	14.090	134.317
. flour	14.332	1.546	15-878		686	686	16.867
Beans, 60 lbs. per bushel	22.281	060	22.371	9.400	4.189	13.589	35.960
Bran and shorts	629.146	35.670	664.816		94.597	94.597	759.413
Beef, 330 lbs. per bbl	199.807	.315	200.122		17.636	17.636	217.758
Butter	119.600	2.137	121.737	14.590	7.090	21.680	143.417
Corn, 56 lbs. per bushel	7, 293.348	482.549	7,775.897		26.484	26.484	7,802.381
Commeal, 200 lbs. per bbl	25.805	6.356	32.161	1	11.474	11.474	43.635
Cheese		1.728	1.728	144.328	2.671	146.999	148.727
Cranberries, 120 lbs. per bbl	106.935	.555	107.490	-075	2.868	2.943	110.433
Coal		.500	.500	809.346	1.265	810.611	811.111
Dried fruit	9.041	2.579	11.620	101.779	8.152	109.931	121.551
Flour, 216 lbs, per bbl	49, 102, 524	36.612	49, 139.136	11.016	913.572	924.588	50,063.724
Furniture and baggage	372.040	327.645	699.682	1,109.466	473.797	1,583.263	2, 282, 948
Grass and clover seed.	5.390	8.936	14.326	.480	J.556	2.036	16.362
Garden roots and potatoes	354.603	13.021	367.624	.095	445.324	445.419	813.043
Hams and bacon.	52.791	2.805	55.593		3.055	3.055	58.648
High wines, 350 lbs, per bbl	1,276.975	3.675	1,280.650	9.275	38.850	48.125	1,328.775
	75.877	13.347	89.224		22.378	22.378	111.602
Iron and nails	1.176	20.266	21.442	1,649.545	8.904	1,658.449	1,679.891
	306	67.228	67.624	251.874	26.502		346.000
Lumber, 34 lbs. per foot.	657.583	1.377.452	2, 035.035	782.302	1,272.130	2,054.432	4,089.467
Laths		46.016	46.016	290.533	13.958	304.491	350.507
Leather	8.361	24.557	32.918	229.731	10.157	239.888	272.806
Millstones							19.541
Miscellaneous merchandise	698.801	1,046.181	1,744.982	12, 361.234	1,046.216	13, 407.450	15, 152.432

Oats, 32 lbs. per bushel	1,097.677	3.954 2.902	1, 101.631 67.820	44.982	7.779	142,271	1, 109.410 210.091
Pig iron.	92.121	147,388	239.509	93.176	6.000	99.176	338.685
Pelts	93,521	7,893	101.414	.367	1.793	2.165	103.579
Pork in bbls., 390 lbs. per bbl	301.950	5,550	307.500	3,900	8.400	12.300	319.800
Pork in hog	1,299.711	16.008	1.315.719	.320	47.703	48.023	1, 363.742
Salt, 280 lbs. per bbl	2.000	48.440	55.440	2, 411.080	14.420	2, 425 .500	2, 480.940
Stoves	.530	48.094	48.624	406.810	9.366	416.176	464.800
Shingles, 200 lbs. per m	17.000	335.400	352.400	52.500	128.250	180.750	533.150
Wool	485.400	12.439	497.839		3.519	3.519	501.358
Wheat, 60 lbs. per bushel	14, 515.117	2.687.183	17, 202.300	2.948	318.698	321.646	17, 523.946
Whiskey, 350 lbs. per bbl	96.775	36.050	132.825	458.325	69.213	527.538	660.363
Cord-wood, 2 tons per cord					9,870.000	9,870.000	9,870.000
Stone, sand, and brick	3, 539.000	69.225	3, 598.225	5.398	157.518	162.916	3, 761.141
Neat cattle, 1,000 lbs, per head	426.500	9.500	436.000	15.000	11.500	26.500	462.500
Horses, 1,000 lbs. per head	83.000	16,000	000.66	38.500	24.000	62.500	161.500
Hogs, 200 lbs. per head	460.000	6.700	466.700		35.500	35.500	502.200
Sheep, 50 lbs. per head	.300	.025	.325	34.575	2.775	37.350	37.675
Total	84, 041.377	7, 104.389	91, 145.766	22, 826.754	15, 415.262	38,242.016	129, 387.782

No. 15.—DISTRICT OF MICHILIMACKINAC.

Port of entry, Mackinaw; latitude 45° 51′, longitude 84° 35′; population in 1850, 3,598.

This, which is the most northerly of the lake districts, as well as the most extensive of them all, embraces that portion of the American coast on the western shore of Lake Michigan, from Sheboygan, Wisconsin, 43°41' north latitude, 88°01' west longitude, northward, including Manitowoc, Two Rivers, Green Bay, Lake Winnebago, with all its ports, in Wisconsin—embraces Little Bay Noquet, Big Bay Noquet; the Fox, Manitou, and Beaver islands; the coast on the straits of Mackinaw; the St. Mary's river to the Sault; thence west along the south shore of Lake Superior to Montreal river-all in the State of Michigan-and continues thence along the Wisconsin shore to the western extremity of the lake at Fond du Lac; whence it proceeds northeasterly along the shore of the Minnesota Territory to Port Charlotte, on the dividing line between the United States and the British possessions. The entire length of this coast-line considerably exceeds 1,300 miles, following the sinuosities of the shore; and from the isolated situation of many portions of the district, it has been found impossible to obtain full or satisfactory returns.

The country bordering upon the great length of coast in this district was partially explored, and even mapped, with sufficient accuracy, more than two centuries ago, by the French Jesuits—those indefatigable discoverers and civilizers, and pioneer colonists of the mighty West; and from that period it has been at all times more or less frequently visited by missionaries, traders, trappers and hunters, until the present day, when a systematic and steady colonization may be said to be fairly established, together with a practical and successful development of its resources, by the cultivation of its productive lands, the prosecution of its fisheries, and the exploitation of its forests and its mines. Notwithstanding all this, there is much ground for the belief that the influence which it is one day destined to exercise on the commercial affairs of this continent, though it may be appreciated by a few far-reaching minds, is litle foreseen or understood by the people at large.

The grounds existing for this confident expectation are to be found in the following peculiar, and in some degree singular, features of this district:

First, the unequalled facilities, which it possesses for navigation, afforded by its numerous lakes, bays and rivers, through which, and their artificial improvements, it has ready access to both the St. Lawrence and Mississippi, from which, by the various internal chains of canal and railroad, it has easy communications to almost every important market along the vast seaboard stretching from the Balize to the straits of Belleisle.

Secondly, the unbounded productiveness of its fisheries, which may be, and are, it might be said, advantageously prosecuted through the entire length of its waters.

Thirdly, the immense resources it possesses in the magnificent forests of pine which border all the southern portions of its coasts, and are

capable of supplying lumber for the entire consumption of the Northwest.

And, fourthly, the incalculable wealth of the mineral regions of Lake

Superior.

These four influences—apart from any agricultural resources, which, under the stimulus of demand arising from the development of the former, are constantly and steadily on the increase—are already felt surely to a degree which has commanded the attention of those engaged in commercial pursuits, and in fact of the government itself.

Every succeeding year fresh ports are springing into existence at different points—all imperatively demanding aid for the construction of light-houses, and piers, and other facilities for navigation; and all as imperatively demanded by the requirements of a commerce growing spontaneously—not forced into life by any fictitious stimulants of speculation—with a rapidity and steadiness hitherto unknown in the commercial history of the world.

At the southern extremity of this district is Manitowoc, about thirty-five miles north from Sheboygan, on the Michigan shore—a port which, almost unknown three years ago, has now, including the country in which it stands, a population of 5,000 inhabitants, and a trade, though hitherto almost entirely overlooked, already exceeding that of Chicago for 1839, as regards exports, although the imports are necessarily something inferior, owing to the smaller extent of country at present looking to Manitowoc for its supplies.

The exports are principally lumber, laths, pickets, ashes,

Entrances, 788; tonnage, 227,940.

A few miles north of Manitowoc is the port of Two Rivers—also in Wisconsin—well situated for lake trade.

Both these new ports require appropriations for light-houses and

piers.

The country adjacent to Two Rivers is finely timbered, and furnishes large quantities of lumber for export, as also shingles, ashes, furs, &c.; but, whenever the land shall be cleared, its exports will consist of grain, wool, animals, and other agricultural produce, such as is furnished by the land of Wisconsin generally. So that, in a few years, the commerce of these two ports may be expected to undergo an entire revolution—becoming, from exporters of lumber and importers of agricultural supplies, exporters of the produce of the soil, and importers of assorted merchandise and luxuries.

The business of Two Rivers will be confined to the peninsula east of Green Bay, and Lake Winnebago, and Fox river; since that route, being more direct, and affording extraordinary facilities for water transportation, will undoubtedly prevent any trade west of it from passing to the lake shore eastward. The local business, however, necessarily

flowing to these points on the shore, will keep up, for all time, an active

and advantageous trade at them.

The port of Two Rivers has never before reported its comm	nerce fully,
but the following results show an excellent commencement: Imports in 1851	\$115,000 112,763
Total	227,763
Of the imports there were for local purposes Ditto for home consumption	\$42,585 72,424
Total	115,009
In 1847, the imports at this port were valued at \$53,747. Of the exports there were—Products of the forest Fisheries Domestic manufactures	\$90,072 16,198 6,493
	112,763

Entrances, 822 steam; 192 sail; making a total of 1,014 arrivals during the season.

The next port claiming the attention of the commercial classes is in fact the most important in the district—Green Bay—situated at the southwestern extremity or head of the great basin of the same name, and the outlet of the Fox river.

This port, indeed, bids fair to rival Chicago, as the lake depot for all that most important branch of the lake trade, which has its origin on the borders of the upper Mississippi. The work known as the Fox river improvement is now nearly completed, connecting the Mississippi with the great lakes, by steam navigation. This work has so greatly improved the navigation of the Fox river, flowing from Lake Winnebago into Green bay, as to admit the ascent of small steamers to the former; whence, by a further improvement of the Fox river, and a canal connecting it with the Wisconsin river, the passage is free to the Mississippi, entrance to which is had about two miles below Fort Crawford. From this point steamers can navigate the Mississippi upward or downward, at option, as occasions may require.

This is the first water route which has been opened connecting the lake, with the Mississippi, navigable by steam power; and what the practical result of its operation may be, is yet in the bosom of the fiture.

Fort Crawford is situated 487 miles above St. Louis; 257 above Burlington, Iowa; 80 above Galena, Illinois; 60 above Dubuque, Iowa; 5 below Prairie du Chien; 243 below St. Paul's, Minnesota Territory; and 255 below the Falls of St. Anthony.

The distance from Green Bay to the mouth of the Wisconsin is about 220 miles, through the richest valley of Wisconsin; by this route, therefore, there is an uninterrupted steam communication from Buffalo,

Oswego, and Ogdensburg, or the Canadian cities, and the mouth of the St. Lawrence, to St. Louis, New Orleans, and the Balize.

This is certainly indicative of a new era in the practice of inland steam navigation; as it will open at once an easy and direct communication between New York and the new States of Wisconsin, Iowa, and the Minnesota Territory, rendering any of the above-named points on the Mississippi easier of access by way of the lakes, than St. Louis itself. This is a fact which cannot be overlooked by immigrants, and will therefore bring the public lands of those new States and Territories advantageously into the market at no distant day. This line of communication also brings the lead mines of Galena nearer by a hundred miles to the lakes, than to St. Louis; and to it ultimately all the hidden wealth of the upper Mississippi valley, incalculable in its amount and apparently inexhaustible, must become tributary-inasmuch as for the transmission of heavy freight and produce this is the easiest and most direct, and therefore, of course, the cheapest channel. Along the eastern portion of this route across the State of Wisconsin, there have already sprung up several promising ports on Lake Winnebago and Fox river; among them Oshkosh, Neenah, Menasha, Du Pere, and Fond du Lac, all well situated, with good harbor facilities, and rich agricultural regions circumjacent. The public lands are in rapid progress of selection and settlement, whether by warrants or regular entry in the land offices, while plank roads are traversing the country in all direc-

Green Bay, which has for several years been a great depot for fish and lumber, is now rapidly becoming the great commercial depot for the internal trade of Wisconsin, and during the season of 1851 there was a line of steamers regularly plying between this point and Buffalo. The completion of the Fox river improvement will, however, demand much greater facilities, henceforth, than have ever before been brought into requisition. No details of the business at Green Bay for the season of 1851 have been received, but it is notorious that the commerce of this place has advanced incalculably within the year; and in the absence of accurate information, it may be fairly assumed as follows:

Imports. \$2,000,000 Exports. \$1,000,000

Total......3,000,000

This estimate of imports may, at first view, appear too large; but, when it is remembered that the country, in the rear and around, is comparatively new, and unable, as yet, to export anything very material, and that the tide of emigration, constantly and regularly pouring in, demands a great quantity of supplies of all kinds for subsistence, for which it must be temporarily in arrear until the land shall be cleared, cultivated, and brought up to the standard which shall constitute it an exporting in lieu of an importing region, this opinion will be reversed.

In consideration of the great and still growing importance of Green Bay, and the remoteness of its situation from Michilimackinac, it might properly be made a port of entry, with the shores of Winnebago,

Green Bay, and the lake coast, from the straits of Mackinaw to Mani-

towoc, constituting a new district.

Debouching into Green Bay, flow from the northward the rivers Oconto, Peshtego, and Menomonee—the latter a large stream, and formerly, for some distance, the frontier line between the States of Michigan and Wisconsin. On it are situated several saw-mills for the cutting of lumber for the Chicago market. The source of this river is but a few miles distant from the shore of Lake Superior, on the southern watershed of the northern peninsula of Michigan. Its course is about two hundred miles in length to its outlet, in which space it has a descent of 1,049 feet, and is emphatically a river of cataracts and rapids, bringing down a vast volume of water, and occasionally spreading to a width of 600 feet. It can, therefore, be made available to any extent for water-power; though its navigation will be, in all times, limited to canoeing.

The lower course of the Menomonee, toward its mouth, is bordered by tracts of heavily timbered pine-lands, the produce of which is now

growing into brisk demand in the neighboring lumber markets.

Below the Menomonee, to the northeast, the White Fish, Escanaba, and Fort rivers, discharge their waters into the Little Bay de Noquet. They are also fringed along their skirts by extensive pine forests, from

which much lumber is annually manufactured.

The Monistique falls into Elizabeth bay, farther to the north. The principal business carried on upon the islands of Lake Michigan, belonging to this district, is fishing and wood-chopping; steamers and propellers frequently stopping at them to wood, and obtain supplies of fish, for the latter of which groceries, fruit, &c., are given in direct barter. The climate is genial and the soil productive; but the present inhabitants—being principally Indians and half-breeds, or fishermen, who have few tastes except for fishing and hunting—contrive to subsist themselves principally by those employments, and the cultivation of small patches of corn and potatoes.

The North and South Manitous have good harbors for the shelter of vessels, as well as the Foxes and Beavers. On the latter group there is a settlement of Mormons; but so far as civilization, refinement, and the tilling of the soil are concerned, they are in nowise superior to the

neighboring tribes of savages.

Mackinac island, in the straits of Mackinac, which connect Lakes Huron and Michigan, is an old missionary settlement and military post, first established above two centuries ago by the French Jesuits, with that admirable forecast and political wisdom which they displayed in the selection of all their posts. It is, in fact, as to natural military strength, the Gibraltar of the lakes, and might easily be rendered almost impregnable. The present fort, however, is a blunder, and could not be defended for half an hour, being commanded by an almost unassailable height within half a mile in its rear, from which, in effect, at the commencement of the war of 1812, it was threatened with two or three light guns, dragged up the reverse during the night, by a handful of Indians and British, and, being unable to offer any resistance, was reduced to an immediate surrender.

It was for a long time an important depot of the American Fur Com-

pany, and is still maintained as a military station by the United States, and used as the rendezvous of the various Indian tribes, which resort

thither annually to receive their government payments.

Mackinac is now a place of considerable traffic, the principal exports being fish and furs, the latter becoming annually more and more scarce; and the imports, blankets, ready-made clothing, fishermen's supplies, and trinkets for the Indians, who rarely carry away much of their receipts in money.

This point is distant from Chicago 340 miles; from Buffalo about

700, by w	vater; and fro	m the Sau	It Ste. Marie 120.		
No retu	rns for its coa	istwise con	It Ste. Marie 120. Imerce are at hand	for 1851.	,
Its Canad	lian imports	for 1851 w	ere		\$3,967
\mathbf{D}_{i}	o do	1850			3,261
	Increase of	n 1851			706
Duties col	lected in 185	1			\$818
\mathbf{Do}	do 1850	00			663
	Increase of	on 1851	• • • • ; • • • • • • • • • • •		155
			•		

Sault Ste. Marie is situated on St. Mary's river, the outlet of Lake Superior, at about 120 miles from Mackinac, 405 from Detroit, and 921 from Washington. It is pleasantly situated on the west side of the straits, and at the foot of the rapids, whence its name. These rapids are about three-quarters of a mile long, at about 20 miles below Lake Superior, with a fall of about twenty-one feet. Mary's is, in all, from Lake Superior to Huron, about sixty miles in length, flowing first a few degrees north of east, then bending abruptly and flowing a few degrees east of south. "Through its whole course it occupies the line of junction between the igneous and detrital rocks, forcibly illustrating to what extent the physical features of a country. are influenced by its geological structure." Between Mackinac and the, Sault Ste. Marie there are innumerable groups of small islands, principally near the northern shore of Lake Huron and the mouth of the St. Mary's, their number having been estimated at thirty thousand.

None of these are as yet of any commercial importance, unless it be

St. Joseph's, which is beginning to export grain and live-stock.

Hitherto the Sault Ste. Marie has been the head of lake navigation, in consequence of the interruption caused by the rapids at this point.

When it is considered that the distance to be overcome does not exceed one mile, with a lift 22 feet, and that the banks of the river nowhere rise to above twenty feet above the water-line, and are composed of soft, friable rock, imbedded in easy soil, it is astonishing that a ship, canal has not been opened long ago across this trivial portage—trivial in regard to the labor and expense of rendering it passable; the costnot being estimated as likely to go beyond a few hundred thousand dollars-which would open to the American lake marine the navigation of the finest lake in the world, furnishing and requiring all articles necessary to build up and maintain a large and prosperous trade.

In no other respect, however, is this obstacle slight or trivial; for

everything required for the facilitation of the vast, numerous and wealthy iron and copper mines of Superior, including machinery of enormous weight, and supplies and forage for the men and live-stock employed—nor this only, but the huge blocks of native copper and heavy ore returning down this route—must all be transported overland at extraordinary difficulty and expense. Even large vessels, several in number annually, are transported over this portage by means of ways and horse-power; nor is it in the least extravagant to say, that the aggregate amount of money thus unnecessarily expended year after year, without any permanent result, would, if collected for a few seasons, defray not only the interest, but the prime cost of this most necessary work.

"Efforts have been made, and will doubtless be renewed," says the report of Messrs. Foster and Whitney on the copper regions of Lake Superior, "to induce the government to construct a canal around these rapids, and thus connect the commerce of Lake Superior with those of the lower lakes. The mere construction of locks is not, however, all that is required. It will be necessary to extend a pier into the river above the rapids, to protect the work and insure an entrance to the locks. This pier will be exposed to heavy currents, and at times to large accumulations of ice, and must be constructed of the firmest materials and strongly

protected."

Materials of the best quality can be easily obtained, as the report goes to show, from Scovill's Point, on the Isle Royale, or the Huron islands, for the completion of the works, which would not, it is believed,

at any rate exceed half a million of dollars.

The effect of the removal of this untoward obstacle—which deters a large, useful, and healthy population from settling in this region—keeps the mineral lands out of the market, and in a very great measure debars the influx of mineral wealth, which could not be otherwise shut out—would be to give a general stimulus to trade, and an infusion of vigor, activity and spirit to the whole movement of the country, with a general increase to the national wealth, entirely beyond the reach of calculation.

It were, therefore, undoubtedly a wise and prudent policy, founded on the experience of all ages, and in nowise savoring of rash or speculative legislation, to disburse the small comparative amount necessary at once to render this vast addition to the national wealth, commerce, and marine, available.

It is clearly impossible that young and necessarily poor States—as all new States unavoidably must be, until their lands are rendered capable of producing, and their mines ready for exploitation—can construct such works at their own expense; and they must necessarily be raised by aid from government, or be left undone, from want of aid, to the great detriment of the community.

Another though inferior consideration is this—that in case nothing is done by the United States government, a canal will undoubtedly be cut, even with the disadvantage of a ten-fold expense, through the hard, igneous rocks on the British shore, by the Canadian government, which never lacks energy or enterprise when channels of commercial advantage are to be opened or secured to itself. And the result of this

would be the diversion from the citizens of the United States of the large sums payable, in the way of tolls, on a work ten times more expensive than would be requisite on the American side.

The husiness of the Lake Superior country for 1851 is estimated as

follows, for the larticles which crossed the portage at the Sault:

Imports, 100,000 barrels bulk; in which are included 2,000 bundles pressed hay; 20,000 bushels of oats and other kinds of grain; provisions, dry goods, groceries, general supplies, and five mining engines; forming an aggregate estimated value of \$1,000,000.

The exports passing around the rapids, for the same season, are as

follows:

1,800 tons of copper, at \$350	\$630,000
500 tons of iron blooms, at \$50	25,000°
4,000 barrels fish, at \$5	20,000

The imports are about 40,000 barrels bulk in excess of the imports of 1850. The cost of transportation on the above one hundred thousand barrels bulk was an average of about nine shillings a barrel from Detroit, or a gross sum of \$112,000 for the transportation of 100,000 barrels for a distance of 500 miles, all by water, with the exception of one mile. The opening of a ship canal at this point would undoubtedly reduce this cost by two-thirds within three years; and within six years the actual savings would defray the whole cost of construction.

Above the Sault is the whole coast of Lake Superior, awaiting only free communication with the lakes below to send forth the rich mineral treasures of that region in exchange for the manufactures and merchandise of the east.

The lake is 355 miles in length, having an American coast to the extent of not much less than 900 miles. The area of the lake is 32,000 square miles; its greatest breadth from Grand Island to Neepigon bay is 160 miles, and its mean depth of water 900 feet, with an elevation of 627 feet above the level of the sea, and 49 feet above the waters of Huron and Michigan. The water is beautifully clear and transparent, and abounds with the most delicious fresh-water fish, the flavor and richness of which infinitely exceed those of the lower lakes, so that they will always command a higher price in the market. One species, the siskawit, has only to be known in the New York and eastern markets in order to supersede all varieties of sea-fish, for unquestionably none approach it in succulence and flavor.

This lake is fed by about eighty streams, none of them navigable, except for canoes, owing to the falls and rapids with which they abound. The more prominent of these rivers, flowing through American territory, are the Montreal, Black, Presque Isle, Ontonagon, Eagle, Little Montreal, Sturgeon, Huron, Dead, Carp, Chocolate, La Prairie, Two-hearted, and Tequamenen. The Ontonagon and Sturgeon are the largest and most important rivers, which, by the removal of some obstructions at their mouths and the construction of piers to prevent the formation of bars, might be converted into excellent and spacious har

bors, in the immediate vicinity of some of the most valuable mines,

where the want of safe anchorage is now severely felt.

The mouth of the Ontonagon is already a place of some growing business, as is La Pointe, at the Apostle islands, where is a good harbor. Eagle and Copper harbors are also places of commerce tor the importation of supplies and the shipment of mineral produce. Ance, at the head of Keweenaw bay, Marquette, Isle Royale, where there is a good harbor, are all places rapidly growing into importance. It would seem that the whole lake coast, from the Sault Ste. Marie to the Isle Royale, is rich in iron and copper ore, and it is scarcely possible to conceive the results which may be expected, when the present mines shall have been developed to their highest standard of productiveness, and others, as unquestionably they will be, discovered and prepared for exploitation.

There are at present two steamers, four propellers, and a considerable number of smaller sailing craft, all of which have been dragged overland, by man and horse, across the portage, in constant employment carrying up supplies and bringing back returns of ore and metal. All these articles have necessarily to be transhipped and carried over the isthmus; and yet, under all these disadvantages and drawbacks, the traffic is profitable and progressive. This consideration only is sufficient to establish the positive certainty of success which would follow

the construction of an adequate and well-protected ship canal.

Indeed it may be asserted, without hesitation, that a well-concerted system of public works, river, lake, and harbor improvements, are only wanted to render the great lake regions, and this district not the least, the most valuable and most important, as they are now the most beau-

tiful and most interesting portion of the United States.

The enrolled tonnage for the Mackinac district, according to the official reports of June 30, 1851, is stated at 1,409 tons, all sail. This is evidently inaccurate, as there were several steamers and propellers plying, at that very date, on the lake above the Sault, and several small steamers running regularly on the waters of Green bay, Lake

Winnebago, and the Fox river.

The extreme inaccuracy, looseness, and brevity of the returns kept and reports made from most of the lake ports of entry can hardly be too much deprecated or deplored, rendering it, as they do, impossible to compile a complete report of the lake commerce sufficiently explicit, and with details sufficiently full, to the perfect understanding of a subject at once so intricate and so important.

Canada trade in 1851.

No. 16.—DISTRICT OF MILWAUKIE.

Port of entry, Milwaukie; latitude 43° 3′ 45", longitude 87° 57';

population in 1840, 1,712; in 1850, 20,061.

This district, which formerly was attached to that of Chicago, was erected in 1850, and the returns embraced in this report, being the first that have been made of its lake commerce, give little opportunity for

comparison.

The coast extends from Sheboygan, Wisconsin, southward to the northern line of the State of Illinois, a distance of about a hundred miles, embracing the ports of Sheboygan, Port Washington, Kenosha, or Southport, Racine, and Milwaukie. These ports are all situated in the State of Wisconsin, on the western shore of Lake Michigan. Sheboygan is immediately adjoining the district of Mackinac; has a good situation for business, though the harbor needs some improvement. The State legislature has authorized a loan for this purpose of \$10,000. There is an excellent farming country in the rear of Sheboygan, the soil of which ordinarily produces good returns of the first quality of grain; in the last two years, however, the wheat crop has been almost a total failure.

Entrances, 730.

Southport, the name of which has been recently changed, with good taste, to the old Indian appellation of Kenosha, is a flourishing place situated on the bluffs, 35 miles south of Milwaukie, and sixty north of Chicago. Under the protection of the bluffs upon which the town stands, piers have been extended into the lake, alongside which vessels may lie and load or discharge cargoes, except during the prevalence of strong easterly gales, during the height of which the seas sometimes are heaped on the piers, and break with such violence as to compel the shipping to stand off into the lake for sea-room. Like the rest of this portion of the State of Wisconsin, the soil about Southport is of a nature to encourage agricultural pursuits; and in consequence the back country is increasing very rapidly in population, and the prairies beginning to export their rich and varied produce, the result of which is a growth of the commerce of the port beyond the anticipations of the most sanguine.

The returns show the imports for 1851 to have been \$1,306,856

Do do exports for 1851 661,228

Total 1,968,084

Racine lies ten miles north from Kenosha, on a beautiful stream of the same name, which forms a harbor in all respects excellent, except for the wonted drawback of an awkward bar at its mouth. The population of Racine in 1840 was about 1,500; in 1850 it was 5,111. principal business, however, is done on piers, which project from its mouth, as at Kenosha. The city is on a height, and is, without doubt, the most beautiful site for a lake city, west of Cleveland. country, depending on the city for supplies and a market, is very similar to that already described in other parts of the district. Its imports for 1851, were \$1,473,125

-----Exports for 1,034,590

> Total 2,507,715

Entrances, 1,462.

Milwaukie, the port of entry and principal port in the district, is situated on Milwaukie river, which forms a good harbor for vessels and
steamers of light draught, but it needs some improvement to make it easy of access to larger craft. The harbor of Milwaukie is in one respect very favorably situated, as there is a sort of bay, or bayou, running in behind the north point, making a fair shelter against all but

easterly winds.

The city stands partly on the river, and partly on the bluffs, which are very high and overlook the lake for many miles. It is ninety miles north from Chicago, and contains 25,000 inhabitants. It is the terminus of the Milwaukie and Mississippi railway, which is finished some fifty miles west, and is intended eventually to communicate with the Mississippi at Dubuque, or Prairie du Chien. This road runs through one of the most fertile districts of Wisconsin, and will bring immense traffic to this port. Of late, owing mainly to the partial failure of the wheat crop during the two successive years of 1849 and 1850, the commerce of this district has not augmented so rapidly as for several years previously, or as it probably would have done in the event of good or

The city of Milwaukie increased in population from 1,712 inhabitants in 1840, to 20,061 in 1850, being a ratio of 1,072 per cent. greater than that of any other city during the same period. It is situated

805 miles northwest from Washington. The commerce in 1851 is estimated for the city as follows: \$14,571,371 Imports Exports: 2,607,824 Total 17,179,195 Entrances, 1,351.

The commerce of the whole district for the same year was: Imports \$19,560,713

Exports 4,564,779

Total.... 24,125,510 The enrolled and licensed tonnage, on the 30th June, 1851, was set down in the official report at 2,946 tons, of which 287 tons were steam, and 2,659 tons sail. The official report of the collector, however, published at the end of the season, makes the tonnage of the district amount to 6,526 tons, giving employment to 325 men. Therefore theremust be an error somewhere, as it is not possible that the tonnage of the district should have more than doubled itself within a few months. Such inconsistencies, however, seem to be the rule, not the exception, in the reports of the lake districts.

The following table will show the business in a few prominent articles of trade, in this district, for export from the several ports; and the comparative trade of the port of entry for the years 1850 and 1851,

according to the returns.

Articles.	Milw	aukie.	Racine.	Kenosha.	Sheboygan.	Port Wash- ington.
	1851.	1850.	1851.	1851.	1851.	1851.
Flour barrels	113, 233	100, 017	22, 977	2, 651	163	3,000
Porkdo	3, 832	476	1, 112	56		
Beefdo	2, 331	1,426	1,712			
Wheat bushels	181, 904	297,758	272,678	233, 052		
Oatsdo	47, 098	2, 100	80,898	59,769	3,650	2, 009
Barleydo	175, 723	15, 270	40,908	55, 169	1,000	1,500
Corndo	£22, 233	5,000	18,941	31, 168		
Woolpounds	226, 256	126, 595	106, 471	30,731	9, 250	
Hidesdo	385, 840		112,000	20, 160	69, 440	
Larddo	29, 120		22, 400			
Ashestons	262	276	55		201	900
Lead pounds	987,840	1,050,000				
LumberM feet		,			1,833	
Laths M					247	
Shinglesdo					1, 199	
T					3, 384	200

The imports consist principally of assorted merchandise necessary for the consumption of a new country—salt, and the household property of emigrants. This district reports no trade with Canada.

Statement showing the principal articles of export and import, coastwise, in the district of Milwaukie, during the year 1851.

IMPORTS.

Articles.	Quantity.	Value.
* (1		
Merchandise		\$15,297,000
Sundries		3,502,287
Salt		4,698
Salt		43,601
Fruit	17,517 "	26,275
Fish	1,208 "	4,832
Lumber	40,401 M feet	404,010
Laths	4,556 M	45,560
Shingles		26,250
Cedar posts		2,556
Whiskey		65,170
Coal		15,239
Pig iron		12,400
Water-lime	2,329 barrels	3,494
Cut-stone		1,750
Cheese		7,454
Tan-bark		27,500
Railroad iron, &c		27,800
Fruit trees		2,787
Locomotives		40,000
Potter's clay		450
		19,560,713

EXPORTS.

Articles.	Quantity.	Value.
Flour Pork Beef Wheat Oats Barley Wool Hides Ashes Lard Broom-corn	372,708 pounds 504,500 " 1,418 tons	\$426,045 70,000 28,301 412,580 38,681 274,327 111,812 20,180 141,800 3,280 8,430

Exports—Continued.

Articles.	Quantity.	Value.
Corn Merchandise Lead Lime Brick Hay Ship-knees Lumber Laths Shingles Fish	1,535 tons	\$28,936 767,000 49,392 3,700 4,265 2,500 5,580 18,330 2,470 2,997 14,336
Wood. Staves Hops Hoop-poles Potatoes Sundries	10,000 cords	20,000 4,000 4,000 500 7,500 2,093,855 4,564,797

No. 17.-DISTRICT OF CHICAGO.

Port of entry, Chicago; latitude 42° 00', longitude 87° 35'; popu-

lation in 1840, 4,470; in 1850, 29,963.

This district is about eighty miles in extent of coast-line from Michigan City, in Indiana, to Waukegan, Illinois, embracing that portion of the coast of Lake Michigan bordering on the States of Indiana and Illinois. Michigan City, Waukegan, and Chicago, are the only ports. The commerce of Michigan City is comparatively small; but having no definite returns from that point, it may be roughly estimated at \$600,000. It is the only lake port of Indiana, and is about forty miles east from Chicago, and on the opposite side of the lake to that city. The Michigan Central railway passes through this place en route for Chicago, and most of the supplies of merchandise are received by it. The exports of flour, wheat, corn and oats from this place are worthy of some consideration.

Waukegan is situated forty miles north from Chicago, on the western shore of Lake Michigan, and is a thriving place of business, though its harbor consists only of piers, extending into the lake, similar to those at Racine, Sheboygan, and other places in the district of Milwaukie. The country circumjacent to it is becoming rapidly populous, and the land is fertile and adapted amply and abundantly to repay all the expenses

of toil and time annually bestowed upon it.

It cannot, therefore, be reasonably doubted that its annual increase

will not fall short of the general progress of its own and the neighboring States.

The account of the tonnage of this place is as follows:

The entrances at Waukegan during the year 1851 were 1,058; being 698 steamers, 244 propellers, 14 brigs, 105 schooners, 2 barques, and 3 sloops.

The following is a concise statement of the commerce of Waukegan, with the names of some of the leading articles both of import and export:

IMPORTS.

Articles.	Quantity.	Value.
Merchandisetons.	1,110	\$555,000
Lumber M.	4,368	43,680
Shingles M	809	2,022
LathsM	475	4,750
Salt barrels.	2,804	4,206
Flourdodo	371	1.113
Applesdo	809	1,213
Whiskeydo	451	4,510
Limedo	210	315
Broom-cornbales.	108	168
Sundries unenumerated		2,757
Total imports		619,834

EXPORTS.

Articles.	Quantity.	Value.	
Wheat bushels. Oats do. Corn do. Barley do. Seed do. Flour barrels. Pork do. Eggs do. Wool pounds. Sundries unenumerated Total exports. Total imports. Total commerce of Waukegan.		\$103,977 12,918 11,949 4,471 1,480 10,020 3,500 372 10,740 35,391 194,818 619,834 814,652	

The city of Chicago stands at the mouth of the Chicago river, with a population of about 40,000, and, as the river debouches into the head of Lake Michigan, is therefore the inmost port of the lake, and the farthest advanced into the country, which supplies its export and consumes It is, on this account, most favorably situated for a its import trade. commercial depot. The river within a mile of its mouth being made up into two affluents, the northern and southern, the city lies on both banks of the main river, and to the west of both the tributaries, with floating bridges whereby to facilitate easy communication for the citizens. Four miles south of the city, the Illinois and Michigan canal falls into the south branch at a place called Bridgeport, and up to this point this stream is navigable for the largest lake craft. The first level of the canal is fed from this stream by means of huge steam-pumps, which are constantly employed in forcing water to the height of about eight feet On entering the canal, therefore, the boats first ascend a lock of about eight-feet lift, and thence, on their way to the Illinois, continually lock downward till they reach the lower level of that valley. is ninety-eight miles in length from Bridgeport to Peru, on the Illinois, and by means of it the waters of the Mississippi and the lakes are united, so that canal boats can readily pass from Chicago to St. Louis, and vice versa, as indeed to any point of the Illinois river, without detention or transhipment of cargo.

The Galena and Chicago Union railway is open from Chicago to Rochford, a distance of eighty miles, and will soon be finished to Freeport, where it will effect a junction with the Galena branch of the Illinois Central railway. The Chicago and Rock Island road is completed to Juliet, forty miles' distance from Chicago, which is eventually to connect Chicago with Rock island, and which is expected to be completed

and opened, within the space of one year, to the Mississippi.

It is proposed to intersect Illinois with a net-work of railways, by which Chicago shall be connected with every portion of the State; and beside these lines, two or three others are projected with the intent of connecting that city with Green Bay, Milwaukie, Beloit, and Janesville, Wisconsin, by railway, but it is still problematical whether they will be wrought to a successful termination.

It is owing, doubtless, to the advantageous situation above described, that Chicago owes her rapid growth during the past few years, her enviable commercial position for the present, and her brilliant prospects

for the future.

In 1840 Chicago had a population of less than 5,000; in 1850 it numbered upward of 28,000, having increased in one year, as shown by the returns of the city census of 1849, over 5,200; and the lowest estimate put upon the population in January, 1852, is 35,000 souls, while more generally it is rated at nearly 40,000 individuals. No parallel for so

great an increase exists. The following tables will give some idea of the details of the commerce of Chicago, which will be found interesting as showing the progressive business of the city, during a long series of successive years,

as well as the alteration of the character of that business, as affected by the continual progression of the country, from an earlier and more im-

perfect to a fuller and better developed system of cultivation.

The progressive value of the imports and exports of Chicago is exhibited during a series of fourteen years, which will be found to give the best idea of the actual progression of the place.

	Imports.	"Exports.
In 1836	\$325,203	\$1,000
1837	373,677	10,065
1838	579,174	16,044
1839	630,980	38,843
1840	562,106	228,635
1841	564,347	348,862
1842	664,347	659,305
1843	971,849	682,210
1844	1,686,416	785,504
1845	2,043,445	1,543,519
1846:	2,027,150	1,813,468
1847	2,641,852	2,296,299
1851	24,410,400	5,395,471

From 1842 to 1847 the leading articles of export were wheat, flour, beef, pork, and wool. The quantities exported in those years were as follows:

		Wheat, bushels.	Flour, barrels.	Beef and pork,	Wool, pounds
			0.000	barrels.	1 500
In :	1842	586,907	2,920	16,209	1,500
	1843	628,967	10,786	21,492	22,050
	1844	891,894	6,320	14,938	96,635
	1845	956,860	13,752	13,268	216,616
	1846	1,459,594	28,045	$31,\!224$	281,222
	1847	1,974,304	32,538	48,920	411,488

From 1848 to 1851 no valuation was made of the importations or exportations; and the valuation of 1848 is deemed so utterly incorrect as to be valueless and unworthy of citation; for the valuation for that year included, under the head of exports, every small bill of sale, whether sent into the circumjacent country for domestic consumption, or shipped, coastwise or foreign, by the lake, for actual exportation. It is therefore set aside.

The following table shows the importations of lumber during the years mentioned:

Articles.	1847.	1848.	1849.	1850.	1851
Boards feet. Laths No. Shingles do		60, 009, 250 10, 025, 1 0 9 20, 000, 000	73, 259, 553 19, 281, 733 39, 057, 750	100, 364, 791 19, 890, 700 55, 423, 750	125, 056, 437 27, 583, 475 60, 338, 250

The table below exhibits some of the leading articles of export from Chicago during the same series of years, and shows the nature and increase or decrease of the trade in various articles:

Articles.	1847.	1848.	1849.	1850.	1851.
Wheatbushels	1, 974, 304	2, 160, 000	1, 936, 264	788, 451	427, 820
Flour barrels	32, 598	45, 200	51, 309	66, 432	71, 832
Corn bushels	67, 315	550, 460	644, 848	262, 013	3, 221, 317
Oatsdo	38, 892	65, 280	26, 849	158,054	605, 827
Beefbarrels	26,504	19,733	48, 436	40,870	53, 685
Porkdo	22, 416	34, 467	17, 940	16,598	19, 990
Tallowdo	203, 435	513,005		719, 100	1,084,377
Larddo	139,009		684,600	724,500	2, 996, 747
Bacondo	47, 248		850,709	909, 910	1,524,600
Tobaccodo	28, 243	209,078		85, 409	182,758
Woolpounds	411,088	500,000	520, 242	913, 862	1,086,944
Hides No	8,774				1, 61

CANADIAN TRADE IN 1851.

Exports of domestic produce and manufactures.

In American vessels In British vessels		
		116,185
${\it Imports.}$		Duty collected.
In American vessels \$4,95 In British vessels 5,81	76 —	•\$1,204 182 1,386
Tonnage inward.—American vessels—steamsail	. 2	652 tons. 290 " 428 "
Tonnage outward.—American vessels—steamsail	. 7	2,183 tons. 1,628 " 428 "

The country around the city for miles is a level prairie, the soil of which is very fertile; which has given Chicago its great agricultural start, and laid the permanent foundation for its increase.

The Illinois and Michigan canal, which comes into the souther stream at Bridgeport, passes through one of the finest agricultural districts in the State, embracing the valleys of the Au Plaine, de Plaine, Fox, Kankakee, and Illinois rivers, and finally, by means of the latter, opens up to a northern market the great corn valley of the West. This canal was first opened for business in May, 1848, and has, therefore, been but four seasons in operation.

Owing, however, to a partial failure of the wheat crop in this portion of the State, during those three years, the returns of tolls are much smaller than they would otherwise have been. The effect of the water connexion of Chicago with St. Louis may, however, be seen in the impetus given to the population and commerce of the city at or near that period.

The canal tolls in 1848 amounted to \$83,773; in 1849, to \$118,787;

in 1850, to \$121,972; and in 1851, to \$173,390.

According to Judge Thomas's report, made in compliance with a resonation of the river and harbor convention, in 1847, the first shipment of beef was made from Chicago in 1833; but that shipment must have been very trifling, since, in 1836 the whole exports from the port were valued at \$1,009; in 1837 they rose to \$11,065; in 1838 to \$16,044\frac{1}{2}\$ in 1839 to over \$32,000; and in 1840 to \$228,635. In 1840 the imports were valued at \$562,106. Since that year the increase in every article of export has been rapid, except wheat, which, for the three

years last past, exhibits a decrease.

The commerce of the port of Chicago in 1851 amounts to the sum of \$29,805,871, consisting of \$5,395,471 exports, and \$24,410,400 imports. At first view there appears in this statement a far greater discrepancy between the value of the imports and exports than is usual even in new countries. The difference may, however, be accounted for on this consideration: that, beside large quantities of rich and costly goods, all sorts of ready-made clothing, hats, caps, boots, and shoes, for the St. Louis market, are imported through Chicago, and by canal and river to their destination, all going to swell the importation returns for the extensive and growing trade of this place; whereas, the goods are, from St. Louis, distributed to all sections of the country, as yet too poor and new to remit articles of produce for exportation by the same route. To this it must be added that casual fluctuations in the market prices at Chicago or St. Louis frequently determine the course by which inland domestic produce is shipped to the seaboard, whether by the lakes or the Mississippi, so that there may be an apparent balance of trade against Chicago, when there is none such in reality.

In 1851, Chicago received—mostly from the Illinois—and exported, no less than 3,221,317 bushels of corn; also received by lake, mostly from the lumber districts of Michigan and Wisconsin, 125,000,000 feet of lumber, 60,000,000 of shingles, and 27,000,000 pieces of lath, of which, according to the Chicago Tribune—esteemed the commercial journal of that place most worthy of confidence—54,000,000 feet of lumber were shipped by canal, and 44,000,000 of these reached the Illinois river; 51,000,000 of shingles were shipped by canal, and 47,000,000 of these reached the Illinois; while of lath 12,000,000 left Chicago for the south, of which 11,000,000 passed beyond the terminus

of the canal.

The continued failure of the wheat crop in northern Illinois has turned the attention of farmers to grazing and wool-growing, for which the prairie lands are admirably adapted, and of this the results are partially seen in the returns.

In 1851 there were slaughtered and packed, for American and English markets, in Chicago, 21,806 head of cattle. The shipments of

beef during the same year were 52,856 barrels; and it is hardly necessary to say that this beef is of the finest quality, for Chicago beef is at this day as well known, both in the American and English markets, for its succulence and tenderness, as if it had been an established article in the provision trade for centuries, instead of years.

The growth of wool in Illinois is not yet, by any means, developed, the trade in this article not having been ten years in existence, at the

utmost; yet the exports of 1851 amounted to 1,086,944 pounds.

r. Over and above these shipments, increased by the addition of 20,000 barrels of pork, there were exported during the year great numbers of cattle, hogs, and sheep, driven, or transported by railway and steamer, from the prairies of Illinois to the markets of Buffalo, Albany, and New York, alive. If these be taken as the results of the first few years of the grazing business, what may not be expected of the great resources of these prairie States, when they shall be fully developed and brought nearer to market by the railway facilities which are already contemplated, and perfected by the complete stocking of the grazing lands?

Hemp and tobacco are also large products of this State.

The arrivals at Chicago for 1851 are as follows: steamers, 662; propellers, 183; schooners, 1,182; brigs, 239; barques, 13; total, 2,279. Tonnage of the season, inward, 958,600.

The enrolled tonnage of the district on the 30th of June, 1851, was

23,105, being 707 tons steam, and 22,397 tons sail.

The following table will exhibit the quantity and value of the principal articles of export and import coastwise, at the port of Chicago, during the year 1851:

EXPORTS.

Articles.		Quantity.	Value.
Flour	barrels	71,723	\$215,169
Wheat		436,808	262,084
Corn	do	3,221,317	1,159,674
Barley		8,537	4,268
Oats		767,089	15,218
Hemp		694,783	41,687
Beef	barrels	52,865	370,055
Pork		20,522	287,308
Tallow		1,084,377	65,062
Lard	do	2,976,747	238,140
Hams		899,504	81,960
Shoulders		650,955	32,548
Hides	_	31,617	88,527
Wool		1,086,944	326,083
Tobacco		482,758	48,275
Timothy seed		1,670	11,690
Steam-engines		15	75,000
Sugar		709	14,180
Salt. A.		3,581	6,371
Reapers		552	55,200

S. Doc. 112.

Exports—Continued.

Articles.	Quantity.	Value.
Potatoes bushels Oil barrels Merchandise tons High wines barrels Leather pounds Lead do Iron do Furs do Buffalo robes do Cattle number	78 2,491 1,878 33,875 1,375,872 144,380 564,500 7,215 448	\$500 1,872 1,245,500 18,780 16,937 68,793 14,436 564,500 3,657 13,440 48,555

IMPORTS.

Articles.	Quantity.	Value.
Merchandisetons	37,368	\$21,081,300
Barleybushels	12,331	6,165
Flourbarrels	6,630	19,890
Wheatbushels	26,084	15,650
Lumberthousand feet	125,056	1,250,560
Shinglesthousand	60,338	150,845
Lath thousand pieces	27,583	275,830
Timbercubic feet	410,679	21,500
Sugarpounds	3,139,800	282,582
Molassesgallons	81,156	32,46 2
Saltbarrels	128,541	192,811
Castings, car wheels and axlespounds	347,500	17,000
Stovesnumber	9,742	97,420
Woodcords	5,924	11,848
Wagonsnumber		9,900
Nails and spikespounds	44,034	2,642
Locomotivesnumber	4	40,000
Leatherpounds	41,567	20,783
Irontons	10,286	411,440
Fruitbarrels	9,836	14,754
Fishdodo	5,257	27,036
Coffeebags	11,316	135,792
Coaltons		150,000
Sundries unenumerated		142,190
t		24,410,400

THE LAKES.

Heretofore the various districts of collection have been presented separately, with such statistics as were attainable and deemed necessary, in regard to their respective trade, tonnage, local resources, avenues and outlets for external communication, and for the facilities of exporting and importing produce, merchandise, &c.

In many cases, however, the establishment of the districts being arbitrary, to suit the conveniences of the custom-house, and founded neither on geographical position, nor territorial limits of States—so that at one time characteristics the most different are presented in one and the same district, and at another many adjacent districts possess identically the same qualities and facilities—it has been judged best, with a view to presenting a general and comprehensible synopsis of the various regions, with their several interests, trades, improvements, and requirements of farther improvement, to give a cursory sketch of this most interesting region, lake by lake; and thereafter to collect the whole lake country, with its interests, and influence on the cities of the Atlantic coast, and on the increase, wealth, and well-being of the confederacy at large, into one brief summary.

Commencing, therefore, from the easternmost terminus of the lake country proper, and proceeding in due order westward, the first to be

mentioned is,

LAKE CHAMPLAIN.

This lake lies between the States of Vermont and New York, on the east and west, and for a small distance, at the northern end, within the British province of Canada East. It is about 110 miles in length from north to south, and varies in width from half a mile to 14 miles, with a depth of water varying from 54 to 282 feet. Its principal feeders are the outlet of Lake George, at Ticonderoga, the rivers Saranac, Chazy, Au Sable, Missisquoi, Winooski, and Wood and other creeks. Its outlet is by the Sorel, Richelieu, or St. John's river, into the St. Lawrence, some 45 miles below Montreal.

The New York and Vermont shores of this lake are of a character the most opposite imaginable, that to the eastward being for the most part highly cultivated, fertile, and well settled, with grazing and dairy farms, furnishing supplies for a thriving business in produce; while the counties of New York to the westward, wild, rocky, barren, and rising into vast mountains intersected by lakes, with little or no bottom lands and intervales, sends down lumber and iron in vast quantities; above ten thousand tons of iron ore, nine thousand of bloom and bar, and nearly three thousand of pig-iron, having passed down the lake and entered the Champlain canal in 1851.

There is, moreover, a large lumber trade, partially from Canada, passing down this lake and canal, to the amount last year of 116 millions of feet.

The whole value of the commerce of Lake Champlain was, for 1846, about eleven millions; for 1847, seventeen; and for 1851, above twenty-

six millions of dollars. Its licensed tonnage for the same year was 8,130. The avenues and outlets of this lake trade are the Chambly canal, and Sorel river improvements, to the St. Lawrence river, affording a free navigation up or down the lakes from the Sault Ste. Marie to the Gulf of St. Lawrence; and the Champlain canal, uniting at Waterford with the Erie canal and Hudson river, and thence giving access to the port of New York and the Atlantic ocean; the Ogdensburg railroad, from a fine port on the St. Lawrence, crossing the upper end of the lake, to Burlington, where it makes a junction with the Rutland and Vermont Central railroads, and so proceeds to Boston and the eastern harbors of the Atlantic; and the White, hall railroad by Ballston to Troy, whence it has communication, via the Harlem and Hudson river railroads, with the city of New York—vast facilities for transportation, to which may be added all the advantages for vessels ascending the lakes, and coasting, possessed individually by each of the regions lying above it, on the St. Lawrence basin.

LAKE ONTARIO.

This lake is 180 miles in length by 40 miles in average width; its mean depth is 500 feet, its height above the sea 232, and its area 6,300 square miles; its principal affluent is the outlet of the superfluous waters of all the great upper lakes, by the Niagara Falls and river.

Its only tributaries of any consequence are, from the Canadian side the Trent and Credit, and from the State of New York the Black river, the Oswego, and the Genesee. Its natural outlet is by the channel of the St. Lawrence, through the thousand isles, and down a steep descent, broken by many rapids and chutes, to Montreal; and thence without

further difficulty to the ocean.

The shores of this lake on both sides, but more especially on the southern or New York coast, combine perhaps the most populous, thicklysettled, and productive agricultural regions of the United States, interspersed at every few miles of length by fine and flourishing towns, and beautiful villages, resting upon a wheat country—that of Genesee—inferior to few in the world for the productiveness of its soil, and the quality of its grain; and a fruit or orchard country not easily surpassed. It has also, bordering on its southern shore, the most valuable and largely exploited salt district of the United States; while all the regions adjoining it possess rare advantages in their admirable system of internal communication, and especially in the Erie canal, running nearly parallel to the lake, through their whole length for a distance of three hundred and sixty-three miles from Buffalo, on Lake Erie, to Albany, on the Hudson river. The abundant water-power afforded by the rivers falling into this side of the lake is turned to much profit for the flouring both of domestic and imported grain, for transhipment by canal for New York and the Atlantic harbors.

The avenues and outlets of the lake are as follows:

It is united with Lake Erie by the Welland canal, round the Falls of Niagara, capable of admitting vessels of twenty-six feet beam, one hundred and thirty feet over all, and nine feet draught—the heaviest that can be carried across the flats of Lakes St. Clair above, and St.

Peters below—and equal to the stowage of three thousand barrels under deck.

With the Gulf of St. Lawrence it has communication by the Lachine, Beauharnois, Cornwall, and Williamsburg canals, of superior capacity even to those on the Welland, constructed to admit the large lake steamboats plying between Montreal, Kingston, and Ogdensburg. Besides these, it has the Oswego canal, falling into the Erie canal at Syracuse; and the Ogdensburg and the Oswego and Syracuse railways, uniting with the Albany and Buffalo, Great Western, Hudson river, and Vermont system of railways, having ramifications through all the New England States, and opening up to it free access to all the more important harbors on the Atlantic.

In addition to these direct outlets, it of course incidentally possesses

all those opening from Lake Champlain.

The value of the commerce of this lake for 1851 amounted to about thirty millions, and its licensed tonnage to thirty-eight thousand tons. The first steamer was launched on this lake in 1816.

LAKE ERIE.

This lake, which lies between 41° 22′ and 42° 52′ N. latitude, and 78° 55′ and 83° 23′ W. longitude, is elliptical in shape; about 265 miles in length, 50 average breadth, 120 feet mean depth, and 565 feet above tide-water; 322 above the level of Lake Ontario, 52 below that of Lakes Huron and Michigan; being the shallowest, and, of consequence,

most easily frozen, of all the great lakes.

Lake Erie is singularly well situated with regard to the soil, character, and commercial advantages of the countries circumjacent to its waters; having at its eastern and southeastern extremity the fertile and populous plains of western New York; west of this, on the southern shore, a portion of Pennsylvania, and thence to the river Maumee, at the western extremity of the lake, the whole coast—productive almost beyond comparison—of Ohio, containing the beautiful and wealthy cities of Cleveland, Sandusky, and Toledo. On the west it is bounded by a portion of the State of Michigan, and on the north by the southern shore of the rich and highly cultivated peninsula of Canada West—undoubtedly the wealthiest and best farmed district of the Canadian province, and settled by an energetic, industrious, and intelligent population, mostly of North of England extraction and habit, and differing as widely as can be conceived from the French and Irish agriculturists of the lower colony.

The whole of the country around Lake Erie is, to speak in general terms, level, or very slightly rolling, with a deep, rich, alluvial soil, covered in its natural state with superb forests of oak, maple, hickory, black walnut, and in certain regions pine, and producing under cultivation magnificent crops of wheat, corn, barley, and oats, besides feeding annually vast multitudes of swine and beef-cattle for the eastern, provincial, and transatlantic marts. No equal amount of land, perhaps, on the face of the globe, contains fewer sterile or marshy tracts, or more soil capable of high cultivation and great productiveness, than this region—as is already evidenced by its large agricultural exports; and

when it is considered that the portions under cultivation are as yet comparatively a small part of the whole, while none has probably been yet brought to the utmost limit of profitable culture, what it may one day become, is as yet wholly incalculable.

This lake has few islands, and these principally toward the western end; but on the northern shores it has three considerable promontories—Long Point, Landguard Point, and Point au Pelè—which do

not, however, afford much shelter to shipping.

The tributaries of this lake are: From Canada the Grand river, a stream of considerable volume, with fine water-power, having at its mouth the harbor of Port Maitland, probably the best on the whole lake, and the only one worthy of note on the Canada side. From New York it receives the Cattaraugus creek, and the Buffalo creek, at the outlet of which is the flourishing city and fine harbor of Buffalo. From Ohio it is increased by the waters of the Maumee, Portage, Sandusky, Vermillion, Black, Cuyahoga, Grand, Ashtabula, and Conneaut rivers, and by those of the Elk and some other small streams from Pennsylvania. Infinitely its largest and most important affluent is, however, the wide and deep river of Detroit, which, flowing down—with a rapid stream and mighty volume of water—a descent of 52 feet in some 60 miles, pours into it the accumulated surplus of the three mighty lakes above it, and all their tributary waters.

Its natural outlet is the Niagara river, which, with an average width of three quarters of a mile and a depth of forty feet, descends, in about 35 miles, 322 feet over the foaming rapids and incomparable cataract of Niagara, which of course prevents the possibility of navigation or flotation down the stream, though it is crossed at several points by fer-

ries of various kinds.

Lake Erie, however, is connected with Ontario by the Welland canal, a noble work on the Canadian side, having a descent of 334 feet effected by means of 37 locks, and passable from lake to lake by vessels of 134 feet over all, 26 feet beam, and 9 feet draught, stowing 3,000 barrels under deck.

By means of this fine improvement, it has free egress to Lake Ontario, and thence to the St. Lawrence; and by the various improvements of that river, and communications from Ontario and Champlain, to many points, as heretofore enumerated, on the Atlantic seaboard.

The artificial outlets of this lake are very numerous, and no less important; many of them already of considerable age, and reflecting much credit on the early energy and enterprise of the State of New York, by which they were principally constructed, in order to secure a

precedence in the trade of the great West.

These are, the Welland canal, as described; the Erie canal, connecting the waters of Lake Erie with the Hudson river, and thus by direct navigation with the Atlantic; the Erie and Beaver canal, from Erie, Pennsylvania, to Beaver, on the Ohio, affording access to Pittsburg and Cincinnati; the Ohio canal, connecting it with the Ohio river at Portsmouth, one hundred miles above Cincinnati, and again (by a branch to Beaver) with the same river about forty miles below Pittsburg; the Erie and Miami canal, from Toledo to Cincinnati; and the Wabash canal, connecting the Miami and Erie with the Ohio at Evans-

ville, in Indiana; and with the Wabash river navigation at Lafayette, in the same State.

For land steam transportation it has the New York Central railway to Albany, where it communicates with the Great Western, Hudson river, Harlem, Housatonic, and all the eastern railroads; the Buffalo and Corning and New York railroad, connecting at Hornelsville and Corning with the Erie railroad, direct from Dunkirk to New York city, and the projected Buffalo and Brantford railway to Brantford, Canada It has, again, through the State of Ohio, the Cleveland and Columbus railway, the Columbus and Xenia railway, and the Little Miami railway, to Cincinnati; the Sandusky and Mansfield railway, connecting with the Cleveland and Columbus road at Shelby; the Madison and Lake Erie railroad, from Sandusky city to Springfield, and thence by the Little Miami railroad, in one connexion, and by the Great Miami railroad (the Cincinnati, Hamilton and Dayton road) in another, to Cincinnati; and the Lake Shore railway, destined to be carried to Toledo, where it will connect with the Michigan Southern railroad to the head of Lake Michigan and to Detroit, whence it will have access to New Buffalo and Chicago, and ultimately to Galena and the Mississippi, and Fond du Lac, Winnebago, and Green Bay, on Lake Michigan.

The estimated value of the commerce of Lake Erie is \$209,712,520. But it is difficult to define accurately between the lakes, so closely is

their trade intermingled.

The licensed tonnage of the lake is 138,852 tons, of which a large and increasing proportion is steam.

LAKE ST. CLAIR.

This small lake, which forms the connecting link, by means of the St. Clair and Detroit rivers, between Lakes Huron, Michigan, and Erie, is but an inconsiderable sheet of water if compared with the vast inland seas above and below it, not exceeding twenty miles in length by thirty in width. It has an average depth of twenty feet of water, although its mud flats between Algonac and the embouchure of the Thames river are extremely shoal, covered with luxuriant crops of wild rice, and navigable only by a shallow and tortuous channel, never capable of admitting above nine, and in dry seasons not more than seven or eight feet burden. It receives from the Canadian shore the Thames river, with some smaller streams, the principal of which is the Chenail Ecartè; and from Michigan the river Clinton, at the mouth of which is Mt. Clements, which with Algonac, at the outlet of the St. Clair, its principal affluent, are the only shipping places on its waters.

At the upper end, Lake St. Clair is filled with many large, low islands, some of them bearing such trees as love the waters these being capable of some degree of cultivation, and others mere flats, covered with wild meadows, affording rank grass as their sole production. From the principal channel, looking toward the Canadian coast, the whole expanse of the lake for many miles' distance resembles a vast morass of the waving wild rice, intersected by small winding bayous; close to the Canadian

shore, however, there is another pass from the mouth of the Thames lakeward.

This lake has little commerce proper to itself beyond the sale of wood, fruit, vegetables, and supplies for passing steamers and sailing craft, although some ship-building is done on its waters, and the largest

steamboat running on the lakes was launched upon them.

No separate returns of the small shipping places in the district of Detroit having been made since 1847, it is impossible even to approximate the trade of Lake St. Clair; but when it is considered that the whole business of the upper lakes, including the prosperous towns and immeasurably wealthy back countries on both sides of Lake Michigan, and all the mineral regions of Lakes Huron and Superior, pass through this outlet, it cannot but appear at a glance how vitally necessary is the action of Congress for the removal of the obstructions in Lake St. Clair and Lake St. George, and the construction of a ship canal around the Sault Ste. Marie; nor can it fail to strike every one who compares the apathy of the American government, in opening the navigation of the upper lakes and the St. Lawrence, with the energy and earnestness displayed by the British and Provincial authorities in conquering the far superior obstacles presented to navigation on its lower waters, and in perfecting a free ingress and egress from the ports of Lakes Huron and Michigan to the tide-waters of the Atlantic ocean.

The commerce of all the lakes to the northward and westward of Lake Erie has an estimated value of above sixty millions of dollars, with a licensed tonnage of nearly thirty thousand tons of steam and sail—a wonderful amount, when the brief period of the existence of this trade, and of the States themselves which furnish it, is taken into con-

sideration.

LAKE HURON.

This superb sheet of water lies between Lake Superior on the northwest, Lake Michigan on the southwest and west, and Lakes Erie and Ontario on the south and southeast. It is two hundred and sixty miles in length, and one hundred and sixty in breadth in its widest part, inclusive of the Georgian bay, a vast expanse—almost a separate lake divided from it by the nearly continuous chain of promontory and islands formed by the great peninsula of Cabot's Head, the Manitoulin, Cockburn, and Drummond groups, up to Point de Tour, the easternmost cape of northern Michigan. It is said to contain thirty-two thousand islands, principally along the northern shore and at the northwestern end, varying in size from mere rocky reefs and pinnacles to large and cultivable isles. The surface of Lake Huron is elevated five hundred and ninety-six feet above the surface of the Atlantic, and depressed forty-five below that of Lake Superior, and four below that of Michigan. Its greatest depth is one thousand feet, near the west shore. Its mean depth is nine hundred feet.

It is bounded on the north and east by the Canadian shore, which, above Goderich, is bold and rocky, carrying a great depth of water to the base of the iron-bound coast, with an interior country which may

be generally described as a desolate and barren wilderness.

At the southern extremity of the Great Georgian bay, whence there is a portage viâ Lake Simcoe to Toronto, not exceeding a hundred miles in length—the future line of a projected railway—is the small naval and military station of Penetanguishine, with some unimportant Canadian settlements on the river Wye, Nottawasauga bay, Owen's sound, &c., and on the islands westward of it some considerable reserves of Chippewa and Pottawatomie Indians. Far up the northern shore are the Bruce mines, under the Lacloche mountains, and opposite to them the settlement on the fertile and partially cultivated island of St. Joseph. These are all the signs of cultivation or improvement on the British side, below the river St. Mary's, on which there is a long, straggling village, with a fort or station of the Hudson Bay Company, over against the American village at the Sault. On the west it has the eastern coast of Michigan, with the deep indentation of Saginaw bay, as yet thinly settled and only cultivated to a limited degree, though the lands of the interior are of unsurpassed excellence and fertility as a grain country, and at the present time extremely valuable for their fine lumber.

Lake Huron is ill-provided with natural harbors, having none on the eastern shore, except that afforded by the entrance of a small river at Goderich, between the St. Clair river and Cape Hurd, on Cabot's Head. The western shore has—though somewhat better provided—only two or three safe places of shelter in heavy weather, the principal and best of which are Thunder bay and Saginaw bay, the latter of which contains several secure and commodious havens. This lake has no outlets of any kind for its commerce, except the natural channel of its waters, by the river, and across the flats of St. Clair to the eastward no canal or railroad as yet opening on its shores; though it will certainly not be many years—perhaps not many months—before the great Western railroad through Canada will open to it, via Penetanguishine, Hamilton, and the Niagara Falls and Buffalo railways, a direct and very short communication with the Atlantic seaboard-making a saving of above six hundred miles of distance from the Sault Ste. Marie. the straits of Mackinaw it has an outlet to the southward, into Lake Michigan, and enjoys through it communication, viâ Green bay and Lake Winnebago, the Fox and Wisconsin rivers, with the Mississippi and the Gulf of Mexico.

LAKE MICHIGAN.

This, which is second of the great lakes in size—inferior only to Lake Superior—is, in situation, soil and climate, in many respects, preferable to them all. Its southern extremity running southward, into fertile agricultural regions, nearly two degrees to the south of Albany, and the whole of its great southern peninsula being embosomed in fresh waters, its climate to the southward is mild and equable, as its soil is rich and productive. It lies between 41° 58′ and 46° north latitude, and 84° 40′ and 87° 8′ west longitude; is 360 miles in length, and 60 in average breadth; contains 16,981 square miles, and has a mean depth of 900 feet. On its western shore it has the great indentation of Green bay, itself equal to the largest European lakes, being a hundred

miles in length, by thirty in breadth, well sheltered at its mouth by the Traverse islands, and having for its principal affluent the outlet of

Lake Winnebago and the Fox river.

The other principal tributaries of Lake Michigan are the Manistee, Maskegon, Grand, Kalamazoo, and St. Joseph rivers, from the southern peninsula of Michigan; the Des Plaines, O'Plaines, and Chicago rivers, from Indiana and Illinois; and from the northern peninsula of Michigan, the Menomonie, Escanaba, Noquet, White-fish, and Manistee rivers.

The lake is bounded to the eastward by the rich and fertile lands of the southern peninsula of Michigan—sending out vast supplies of all the cereal grains—wheat and maize especially—equal if not superior in quality to any raised in the United States; on the south and southwest by Indiana and Illinois—supplying corn and beef of the finest quality, in superabundance, for exportation; on the west by the productive grain and grazing lands and lumbering districts of Wisconsin; and on the northwest and north by the invaluable and not yet half-explored mineral districts of northern Michigan.

The natural outlet of its commerce, as of its waters, is by the straits of Mackinac into Lake Huron, and thence by the St. Clair river down the St. Lawrence, or any of internal improvements of the lower lakes,

and the States hereinbefore described.

Of internal communications it already possesses many, both by canal and railroad, equal to those of almost any of the older States, in length

and availability, and inferior to none in importance.

First, it has the Green bay, Lake Winnebago, and Fox river improvement, connecting it with the Wisconsin river, by which it has access to the Mississippi river, and thereby enjoys the commerce of its upper valleys, and its rich lower lands and prosperous southern cities; and second, the Illinois and Michigan canal, rendering the great com valley of the Illinois tributary to its commerce. By railways, again, perfected or projected, it has, or will shortly have, connexion with the Mississippi, in its upper waters and lead regions, viâ the Milwaukie and Mississippi and the Chicago and Galena lines. To the eastward, by the Michigan Central and Southern railroads, it communicates with the Lake Shore road, and thence with all the eastern lines from Buffalo to Boston; and to the southward it will speedily be united, by the great system of projected railroads through Illinois and Indiana, to the Mississippi and Ohio river.

It is impossible not to be convinced, on surveying the magnificent system of internal improvements so energetically carried out by these still young, and, as it were, embryo States, that if they were, in a degree, anticipatory of their immediate means and resources, they were not really in advance of the requirements of the age and country. This is sufficiently proved by their triumphant success, and by the high position of population, civilization, agricultural and commercial rank to which they and they alone have raised, as if by magic, the so lately

unexplored and untrodden wildernesses of the west.

By the strong, deep, and rapid river of St. Mary's, with its broad and foaming Sault, Lakes Michigan and Huron are connected with what may be called the headmost of the great lakes, though itself the recipient of the waters of a line of lakes extending hundreds of miles farther

to the northwestward, though unnavigable except to the canoes of the savage.

LAKE SUPERIOR.

Lake Superior is bounded on the south by the northern peninsula of Michigan and part of Wisconsin, on the west and northwest by a portion of the Minnesota Territory, and on the north and northeast by the British possessions. The lands immediately adjoining it are, for the most part, sterile, barren, and rugged beyond description, consisting, for the most part, on the southern shore, of detrital, and on the northern, of igneous rocks, covered with a sparse and stunted growth of pines and other evergreens, mixed with the feeble northern vegetation of birch, aspen, and other deciduous trees of those regions. Little of the shores, it is believed, are susceptible of cultivation; and it is likely, when these wild districts become—as they one day will, beyond doubt—the seat of a large laborious population, that its inhabitants will depend mainly for their supplies of food and necessaries, as of luxuries, on the more genial regions to the south and eastward. The tributary rivers of this lake are numerous, and, bringing down a large volume of water, afford superabundant water-power for manufactories the most extensive in the world, though, from their precipitous descent and numerous falls and chutes, they can never be rendered navigable for more than a few miles above their mouths except for canoes; and even for these, owing to the number and difficulty of the portages, the ascent is laborious in the extreme.

That these regions will, at no very distant future period, be largely, if never densely, peopled, may be held certain, since, from the east to the west the whole southern shore abounds with copper—not, as it is generally found, in ore yielding a few per cent., but in vast veins of almost virgin metal, the extent of which is yet unexplored, as it is probably unsuspected and incalculable. So long ago as when the French Jesuits discovered these remote and desolate regions, early in the seventeenth century, these mines were known and worked by the Indians, who, at that time, possessed implements and ornaments of copper. They concealed, however, the situation of these mines with a superstitious mystery; and as instruments and weapons of iron and steel were introduced among them by the white man, the use of copper fell into abeyance, and the existence of the mines themselves was lost in oblivion.

Within a few years there have been rediscovered several mines—some of which, and those by no means the least productive, have been discovered within a year or two of this date—which are now in the full current of successful exploitation. Many more are doubtless yet to be discovered, as the whole region is evidently one vast bed of subterraneous treasure. The isles Hoyale and Michipicoton are also, beyond question, full of copper, as are portions of the British coast to the northward, where two or three mining stations have been already established, with more or less prospects of success. The grounds of these prospects, and the character of the country and its mineral deposites, are very ably and graphically described in the interesting memoir, by Dr. Jackson, on the geology, mineralogy, and topography of Lake

Superior, which is appended to this report, and which, it is believed,

contains most correct and valuable information.

As yet, beyond the mining stations and the village at the Sault, Lake Superior has no towns or places of business except the points for shipping the mineral products of her soil, and receiving the supplies necessary to the subsistence of the men and animals employed in the exploitation of her treasures. Nor beyond this has she any trade, unless it be the exportation of her white-fish and lake trout, which are unequalled by any fish in the world for excellence of flavor and nutritious qualities.

The only inlet for merchandise, or outlet for the produce of this vast lake, and the wide regions dependent on it, is the portage around the Sault, across which every article has to be transported at prodigious labor and expense; whereas, by a little less exclusive devotion to what are deemed their own immediate interests, on the part of the individual States of the Union, and a little more activity and enterprise on that of the general government, an easy channel might be constructed at an expense so trivial as to be merely nominal, the results of which would be advantages wholly incalculable to the commerce of all the several States, to the general wealth and well-being of the nation, and to the almost immediate remuneration of the outlay to the general government by the increased price of, and demand for, the public lands in those regions.

Geology, Mineralogy, and Topography of the lands around Luke Superior; by Charles T. Jackson, M. D., late United States Geologist and Chemist, Assayer to the State of Massachusetts, and late Geologist to the States of Maine, New Hampshire, Rhode Island, and for the public lands of Massachusetts.

Lake Superior is the largest sheet of fresh water on the face of the globe, and is the most remarkable of the great American lakes, not only from its magnitude, but also from the picturesque scenery of its borders, and the interest and value attaching to its geological features. As a mining region it is one of the most important in this country, and is rich in veins of metallic copper and silver, as well as in the ores of those metals. At the present moment it may be regarded as the most valuable mining district in North America, with the exception only of the gold

deposites of California.

This great lake is comprised between the 46th and 49th degrees of north latitude, and the 84th and 92d degrees of longitude, west of Greenwich. Its greatest length is 400 miles; its width in the middle is 160 miles, and its mean depth has been estimated at 900 feet. Its surface is about 600 feet above the level of the Atlantic ocean, and its bottom is 300 feet below the level of the sea. The ancient French Jesuit Fathers, who first explored and described this great lake, and published an account of it in Paris in 1636, describe the form of its shores as similar to that of a bended bow, the northern shore being the arc, and the southern the cord, while Keweenaw Point, projecting from the

southern shore to the middle of the lake, is the arrow. This graphic description is illustrated by a map, prepared by them, which displays the geographical position of the shores of this great lake with as much fidelity as most of the common maps of our own day, and proves that those early explorers were perfectly familiar with its shores, and knew how to make geopraphical surveys with considerable exactness. Reference to a former report to the government of the United States, by myself, (31st Congress, 1st session, Ex. Doc. No. 5, part 3d, Washington, 1849,) fully demonstrates how much was known to the early French explorers, of the geography and mineral resources of Lake Superior and the regions circumadjacent; and that report will be found, notwithstanding some omissions and interpolations, for which I do not hold myself responsible, to contain much that will tend to throw light on the mineral resources of the public lands lying along the southern shores of the lake.

The coast of Lake Superior is formed of rocks of various kinds and of different geological groups. The whole coast of the lake is rock-bound; and in some places, mountain masses of considerable elevation rear themselves from the immediate shore, while mural precipices and beetling crags oppose themselves to the surges of this mighty lake, and threaten the unfortunate mariner, who may be caught in a storm upon a lee-shore, with almost inevitable destruction. Small coves, or boatharbors, are abundantly afforded by the myriads of indentations upon the rocky coast; and there are a few good snug harbors for vessels of moderate capacity, such as steamboats, schooners, and the like. Isle Royale, though rarely visited by the passing vessels, affords the best harbors. Keweenaw Point has two bays in which vessels find shelter, viz: Copper harbor and Eagle harbor. Adequate protection may be found from the surf under the lee of the Apostle islands, at La Pointe; and there is tolerable anchorage at the Sault de Ste. Marie, the port of embarcation upon St. Mary's river, at the outlet of the lake.

There are but few islands in Lake Superior; and in this respect it differs most remarkably from Lake Huron, which is thickly dotted with

isles and islets, especially on its northern shore.

Owing to the lotty crags which surround Lake Superior, the winds sweeping over the lake impinge upon its surface so abruptly as to raise a peculiarly deep and combing sea, which is extremely dangerous to boats and small craft. It is not safe, on this account, to venture far out into the lake in batteaux; and hence voyageurs generally hug the shore, in order to be able to take land in case of sudden storms. During the months of June, July and August, the navigation of the lake is ordinarily safe; but after the middle of September great caution is required in navigating its waters, and boatmen of experience never venture far from land, or attempt long traverses across bays. Their boats are always drawn far up on the land at every camping-place for the night, lest they should be staved to pieces by the surf, which is liable at any moment to rise and beat with great fury upon the beaches.

The northern or Canadian shore of the lake is most precipitous, and consequently most dangerous to the navigator. On the south shore, again, the sandstone cliffs which rise in mural or overhanging precipices, directly from the water's edge for many miles, afford no landing-

places. This is the case especially along the cliffs at the Pictured Rocks, and on the coast of Keweenaw bay, called l'Anse by the French

voyageurs.

On the coast of Isle Royale there are beautiful boat harbors scattered along its whole extent on both sides of the island; and at its easterly extremity the long spits of rocks, which project like fingers far into the lake, afford abundant shelter for boats or small vessels, while, at the western end of the island, there is a large and well sheltered bay called Washington harbor.

Near Siskawit bay the navigator must beware of the gently-shelving red sandstone strata which run for many miles out into the lake, with a few feet only of water covering them. Rock harbor, on the south side of the island, is a large and perfectly safe harbor for any vessels, and has good holding-ground for anchorage, with a very bold shore, while the numerous islands, which stand like so many castles at its entrance, protect it from the heavy surges of the lake. The whole aspect of this bay is not unlike that of the bay of Naples, though there is no modern volcano in the back-ground to complete the scene.

None of the American lakes can compare with Lake Superior in healthfulness of climate during the summer months, and there is no place so well calculated to restore the health of an invalid who has suffered from the depressing miasms of the fever-breeding soil of the southwestern States. In winter the climate is severe, and at the Sault Ste. Marie, mercury not unfrequently freezes; but on Keweenaw Point, where the waters of the lake temper the chillness of the air, the cold is not excessive, and those who have resided there during the winter, say that the cold is not more difficult of endurance than in the New England States. Heavy snows fall in mid-winter on this promontory, owing to its almost insular situation; but the inhabitants are well skilled in the use of snow-shoes, so that snow is not regarded as an obstacle to the pedestrian, while, on the newly-made roads, the sleds and sleighs soon beat a track, on which gay winter parties ride and frolic during the long winter evenings of this high northern latitude. From researches which I have made, it appears that the mean annual temperature at Copper Harbor, on Keweenaw Point, is 42°; and from my experiments on the temperature of the lake, at different seasons of the year, the waters of this great lake are shown to preserve a constant temperature of about 39½° or 40° F., which is that of water at its maximum density.

It is known that Lake Superior never freezes in the middle, nor anywhere except near its shores, from which the ice very rarely extends to more than ten or fifteen miles distance. Occasionally, in severe winters, the ice does extend from the Canada shore to Isle Royale, which is from fifteen to twenty miles distant; so that the caribou and moose cross over on it to the island, whither the Indian hunters sometimes follow them over the same treacherous bridge, liable, although it is, to be suddenly broken into fragments by the surges of the lake. By the action of drifting ice, not only have boulders of rocks and of

By the action of drifting ice, not only have boulders of rocks and of native copper been transported far from their native beds, and deposited upon the shore at distant places; but even animals, such as squirrels, rabbits, deer, moose, caribou, and bears, have thus navigated the waters of Lake Superior, and been landed on islands to which

they could not otherwise have gained access. The mouth of every river on the lake shore reveals, by the *debris* brought down by ice in the spring freshets, the nature of the rocks and minerals which occur in its immediate banks or bed; and thus indicates to the explorer the proper places where to search for ores or metals.

The early French explorers noticed the fact of the transportation of masses of native copper and rock by drift-ice, but they made no use of these facts to discover the native deposites of metals in the rocks which border on the rivers. It was by following the hint drawn from these traces that my assistant and myself were enabled, in 1844 and 1845, to discover, and make known to the country, those valuable mines, which have so astonished the world by their metallic contents, and which subsequently induced the government of the United States to undertake a geological survey of that territory, with the conduct of which I was charged by the Hon. Robert J. Walker, late Secretary of the Treasury, and which I effected, so far as it was possible to do so, before my labors were brought to an abrupt conclusion, by circumstances over which I had no control.

To the construction of a canal around the falls of the Sault Ste. Marie, one of the principal obstacles will be found in the winter's ice, against which the locks at the entrance to the canal must be guarded, or the work, however strong, will be overturned and destroyed. Vessels of any considerable burden cannot approach the shore nearer than about half a mile. The canal must, therefore, be carried out into the water to that distance, and the form of the ice-breakers, guards, or mole, must be such as to allow the ice to rise over them, and not to press against perpendicular walls. This is to be done by giving a proper slope, or bevel, to the walls, so that the ice will ride up them and break into pieces. By this method the harbor and entrance locks may be sufficiently protected against the driving and expanding ice of the lake and St. Mary's river.

The opening of a ship-canal between Lake Superior and the lower lakes is one of the most important enterprises of the day, and it is only to be regretted that Congress has thought it best to appropriate land instead of applying money directly to the execution of this great work, which may now be delayed for some time, to the great disadvantage of the country at large. So soon as the canal above mentioned shall be completed, the summer tour of travellers will be extended to a cruise around Lake Superior, and from La Pointe many will cross over to the Falls of St. Anthony, on the Mississippi river; and thus explorers will find it easy to gain access to remote regions, now seldom visited by white men. The importance of this enterprise can hardly be overestimated, and its consequence will be the vast facilitation and increase of the commerce of Lake Superior, and the incalculable enhancement of the value of the public lands, while a tide of immigration may be looked for from Norway, Sweden, and the north of Europe, as well as from the New England States, pouring into the northwestern wilderness, and subduing the forests, and extending far and wide the area of freedom and civilization.

The time will doubtless come when a canal or railway will be made to the Falls of St. Anthony; and possibly we may see the trade of Hudson's bay flowing into the United States, through Lake Superior and our other great lakes and rivers. For that great bay is but fifteen days' canoe voyage from Lake Superior, and the portages are few and not long, so that the British Hudson's Bay Fur Company carry on constant communication with their factories upon the bay from their posts upon Lake Superior; and their agents at the British posts in Oregon travel from their stations on the borders of the Pacific ocean, by way of Hudson's bay and Lake Superior, on their route to Great Britain. northern region has unfortunately been always, hitherto, undervalued. It is now known to be one of the most important mineral regions in America; and it should be borne in mind that there are deposites of native copper on Copper Mine and McKenzie's rivers, in the same kinds of rock that contain the stupendous lodes of this metal on Keweenaw Point and the Ontonagon rivers. Every means that tend to carry our population farther northward, will tend to bring to light and to practical utility the mineral treasures of those regions; while trade in turs and seal-skins will be brought nearer to us by enterprising men, it matters not whether of the British provinces or of the United States of America.

The time is now come when the public faith is settled on the value of mineral preductions; and it is understood that good working mines are sure to command and reward the energies of capitalists and miners, since it is proved that mining is liable to no greater risks of failure than ordinary mercantile enterprises, provided due precaution be exercised by the adventurers in the selection of their mines and in working them

to advantage.

ROCKS OF LAKE SUPERIOR LAND DISTRICT.

On approaching the Sault Ste. Marie by the St. Mary's river the geologist has an opportunity of discovering the age of the sandstone strata, by observing that the limestones of Saint Joseph's island, and of the other numerous isles in that river, are rocks of the Devonian group, and contain the characteristic fossils by which that rock is determined to be the equivalent of those of Eifel, as has been fully proved by Mons. Jules Marcou, the geologist sent to the United States by the government of France, to make collections for the Museum of Geology in the Jardin des Plantes of Paris. These Devonian rocks, like those of Mackinac, have been mistaken by two geologists who have reported upon this district, for Siberian limestones; by whom the geological position of the sandstone of the Sault Ste. Marie has also been mistaken, in their supposing that it passed beneath these Devonian rocks, when it in reality is above them, as it is seen to rest horizontally around Silurian limestone, near Sturgeon river, on Keweenaw Point, beneath which it cannot pass, considering the fact that the limestone in question has a dip of thirty degrees from the horizon, while the sandstone at that place is quite horizontal.

It is obvious, then, that the red and gray sandstones of Lake Superior are above Devonian rocks, and therefore cannot be older than the coal formation; while from their lithological characters they appear to belong to the Permian system of Verneuil and Murchison. Above the Sault we see these red and gray sandstones dipping at a gentle angle into the lake, showing that they do in fact dip directly opposite to the direction

that would be required to make them dip beneath the limestone on St. Mary's river.

This question is one of some importance; since, if the sandstones of Lake Superior were, as has been erroneously alleged, of the Potsdam group, they would be out of all accordance with the ascertained facts of geological science, and would break into the system of the best known laws of elevation of strata and of order of super-position. In point of fact the sandstones of Lake Superior are the exact equivalents of those of Nova Scotia, where trap-rocks of the same age as those on Lake Superior pass through it and produce precisely the same results as I have already described in my reports on the geology and mines of Lake Superior, bearing in the same way more or less native copper, with occasional particles of silver. Now, Potsdam sandstone never presents any such results in any part of America; and to call that of Lake Superior its equivalent, is but to lead people astray, and to nourish false hopes of finding copper and silver where it does not occur, while a great error introduced into science cannot fail to produce the most mischievous results. On this account, I have thought proper to notice an error which would not otherwise be worthy of refutation.

Leaving the Sault and cruising along the southern shore of the lake, with an occasional trip inland, we come to cliffs of sandstone, and then to rocks called metamorphic, which extend from Chocolate to Carp and Dead rivers, and find slate rocks, granite rocks, sienite, hornblend rock, and chlorite slate. In this group of primary rocks we fine mountain masses of excellent specular iron ore and magnetic iron ore mixed. These mountains of iron ore were originally explored under my directions, by Mr. Joseph Stacy, of Maine, who first called public attention to them in 1845. They were subsequently examined by Dr. John Locke, and Dr. Wm. F. Channing, while serving as my assistants in the geological survey of this region in 1847.

There is an immense supply of the richest kind of iron ore in these hills, and the Jackson Iron Company of Michigan has erected forges for making blooms for bar-iron—the quality of which is excellent. This region may be called one of the important iron districts of Lake Superior, and will become of great value at some future day, when there shall be facilities for transportation of the ore to the coal districts

of Ohio.

The granitic and sienite rocks occupy a considerable tract of land which has not yet been explored, and has only been run over by the linear surveyors, who have brought out fragments indicating the country to the westward of the sandstone, on the coast, to be crystalline; but the geological relations of the two rocks have never been ascertained, nor have their mineral contents been seen by any one.

Following the coast to l'Anse, or Keweenaw bay, we find on the south side of that bay large beds of slate rocks, some of which are good novaculite or whetstone slate. On the northern side of the bay we find a long series of cliffs of red sandstone perfectly horizontal, or at most wavy, extending all the way to Bête Gris. This sandstone, as before observed at Sturgeon river, surrounds a mass of Silurian limestone containing shells, known as the *Pentamerus oblongus*, one of which I dis-

covered in a piece of the limestone brought to me by one of my assistants in 1848.

At Lac la Belle and at Mt. Houghton the trap-rocks occur, and ride over the sandstone strata after passing between their layers; and at Mt. Houghton the igneous agency of this trap-rock has changed the fine sandstone into a kind of jasper.

At Lac la Belle, on Bohemian mountain, we have regular veins of the gray sulphuret of copper, containing a certain proportion of sulphuret of silver. Mines have been opened on this hill, but have not thus far proved successful, since the ore requires preparation by machinery not

yet to be procured in that region.

Lac la Belle is a most beautiful sheet of water, bordered by mountains or steep hills, such as Mt. Houghton and Bohemian mountain, while on the south the horizontal plains of sandstone stretch away in the distance and are covered with a growth of forest trees. Leaving Lac la Belle, we pass down a serpentine stream which enters the great lake. Then following the coast, we pass beneath frowning crags and visit the falls of the Little Montreal stream. All this coast consists of trap-rocks, and of a kind of porphyry or compact red feldspar. No copper veins of any value occur on the coast this side of the point, though many companies have wasted their money in attempts to work calcareous spar veins that are perfectly dead lodes, or free from copper. At the extremity of the point, agates are found in amygdaloidal traprocks, and on the shore in the form of rolled pebbles.

Doubling the cape, we soon pass Horseshoe cove and reach Copper harbor, the site of Fort Wilkins, and one of the first places where copper ore was noticed by the French Jesuits; since whose time it has ever been known to the voyageurs on the lake under the name of the

green rock.

While constructing the fort at Copper Harbor, numerous boulders of black oxide of copper, a very rare ore of that metal, were discovered; and before long a vein of this valuable ore was discovered in the conglomerate rocks, near the pickets which enclose the parade ground. This was found to be a continuation of the vein called the green rock at Hayes's Point, and was immediately opened by the Boston and Pittsburg Mining Company. Unfortunately, however, the vein was soon cut off, as I had ventured to predict it would be, by a heavy stratum of fine-grained red sandstone, which is not cupriferous. There the vein was found to consist wholly of calcareous spar, and of earthy minerals of no economical value.

The miners were then transferred to the cliff near Eagle river, where I had surveyed a valuable vein of native copper, mixed with silver. This vein has since been fully proved, and is one of the wonders of the world; there being solid masses of pure copper in the vein, of more than 100 tons weight each, besides masses of smaller size in other parts of the vein. This mine has produced about 900 tons of copper per annum, and is one of the most valuable copper mines in the country. It is a regular metallic vein, in amygdaloidal trap-rock, which underlies the compact trap-rock that caps the hill. The spot is one of the finest locations for mining purposes that I have seen, the vein being exposed in the face of a cliff 300 feet above the level of the southwest

branch of Eagle river. This vein, when first discovered, was far from disclosing its real value. A perpendicular vein of prehnite, six inches wide at the top of the cliff, was observed to contain a few particles of copper and silver, not amounting to more than two per cent. of the mass. About half way down the cliff this vein of prehnite was found to be a foot and a half wide, and contained five and a half per cent. of copper and some silver. It was thought worth while to drive a level into the lower part of the cliff, where, according to the rate of widening of the vein, it ought to be from two to three feet wide. This was done at my suggestion, and a magnificent lode of copper was disclosed; many lumps of solid copper of several hundred weight being found mixed with the vein-stone. On sinking a shaft at this point the solid metallic copper was soon found to occupy nearly the whole width of the chasm, and immense blocks of copper are now taken from this vein by the miners, who are working levels 300 or more feet below the mouth of the shaft. Large quantities of lumps of copper called barrel ore, and rock rich in smaller pieces of copper, mixed with silver, are now raised, this last being called stamp ore, and worked by stamping and washing the ore. From this stamp work about five thousand dollars' worth of pure silver is picked out by hand, and much is still left among the finer particles of metal and goes into the melted copper.

Suitable cupelling furnaces will ultimately be erected for the separation of all the silver from this rich argentiferous stamp work, lead being the appropriate metal for its extraction by eliquation and cupellation.

There are other valuable copper mines on Eagle river. The North American Company, which has one end of the cliff vein, called the South Cliff mine, and another on which their mining operations commenced some years ago, is at present in successful operation, and will

add much to the exports of copper from the lake.

The Lake Superior Copper Company, which was the first that engaged in those mining operations that gave value to this district, opened its first mines on Eagle river in 1844. Under the very unfavorable state of things which then existed in the savage and uncivilized state of the country, and after two or three years' labor, they very unfortunately sold their mines, at the precise moment when they were upon the vein that now has been proved to be so very rich in copper and silver. The Phœnix Copper Company, formed of the remains of the Lake Superior Company, opened these mines anew; and now these give ample encouragement to the new adventurers, who will doubtless reap their reward in valuable returns for their labor and enterprise.

A new vein a little to the eastward of the first that was opened, on

the river's borders, is said to give promise of valuable returns.

The Copper Falls mine, another branch of the Lake Superior Company, is also engaged in working valuable veins of native copper and silver, and has sent some of their metals to market.

The Northwest Company has a valuable mine a few miles from Eagle Harbor, and the metal raised therefrom is very rich and abundant, some of it being mixed with sprigs and particles of metallic silver. This mine, if opened with due skill, and in as bold a manner as that of the Boston and Pittsburg Company at the cliff, cannot fail to prove of great value.

There is also a mine, owned by the Northwestern Company, near the Copper Falls mine, in the rear of Eagle Harbor, which is also rich

in native copper, but I do not know its present condition.

A finine was also opened at Eagle Harbor, which gave a large yield of copper mixed with laumonite; but the mine was opened like a quarry, and was close to the waters of the lake. It was, therefore, soon flooded, and was consequently abandoned by the miners.

There is also a mine called the Forsyth, which is probably a valuable one, but it was not opened at the time I made my surveys. I obtained fine specimens of copper and silver from this vein, and sent them to Washington, with the large collection I made for the United States government, and they are now to be seen with my collection in

the Smithsonian Institute.

A full and minute descriptive catalogue of the collection I made for the United States government was sent by me, as a part of my report, to the late Secretary of the Interior; but it has not been printed, though it was the most valuable part of my report, and is absolutely necessary for the full understanding thereof, and for learning the nature, locality, and value of each specimen in the collection made

by me.

The rocks which contain native copper, on Keweenaw Point, are of that kind called amygdaloidal trap, which is a vesicular rock, formed by the interfusion of sandstone and trap-rock, and is the product of the combination of the two gaseous bubbles, or aqueous vapors, which have blown it into a sort of scoria at the time of its formation. It is in this rock that we find the copper-bearing prehnite and other veinstones peculiar to the copper lodes. In Nova Scotia the same facts were observed by Mr. Alger and myself, only that there the copper is more abundant in the brecciated trap, or a trap tuff, which lies below the amygdaloid. Prehnite does not occur in Nova Scotia trap, but in its stead we find analcime, laumonite, and stilbite, as the minerals accompanying the native copper.

On Isle Royale we have phenomena similar to those observed on Keweenaw Point: long belts of trap-rock, with bands of a conglomerate of coarse water-worn pebbles, and strata of find red sand-

stone.

The trap-rocks rest on the strata of sandstone, after passing between thin strata; and at the line of contact, and for a considerable distance, we have an amygdaloidal structure developed. It is probable that the trap-rock was poured over the sandstone strata while the whole was submerged, and that other beds of sandstone were deposited upon it; so that if this was the case, we should have a succession of deposites; but in some places it appears as if the trap had elevated the strata, and pushed itself through the sandstone by main force. Whatever may be the theory of this, it is certain that the strike of the strata and the direction of the included trap-rock are the same. On Keweenaw Point we have veins cutting across the general direction of the strata, and, of course, of the trap range, or, as the miners call it, "across the country;" while on Isle Royale the copper veins more frequently run parallel with the trap ranges, or "with the country."

On Isle Royale, as near the Untonagon river, on the south shore of

the lake, massive epidote is the most common "vein-stone" that bears native copper—the metal being interspersed with it in its mass, or spread in thin sheets in the natural joints of the rock, with occasional masses or lumps of considerable magnitude. Near Rock Harbor, on Isle Royale, at a place called Epidote, and at another called after the most abundant mineral found in the veins, granular and compact epidote are the prevalent rocks accompanying the native copper. So, also, at Scovill's Point the same associations prevail in the cupriferous veins.

The most important and productive mines of native copper on Isle Royale have been opened on the north side of the island; but still the explorations have been too limited to allow of our judging of the value of the numerous veins upon that remarkable island. At Washington Harbor, upon Phelps's island, several promising veins of native copper, associated with prehnite, occur; but they have not been opened to a depth sufficient to establish their value. At Siskawit bay we find a large body of fine red sandstone bordering the trap-rocks, and shelving down into the lake at a very moderate angle. No valuable copper veins have been found at this place; but the bay is one of the favorite stations for fishermen, who pack annually great numbers of siskawit [salmo siskawit,] the fattest and finest species of the lake trout family, and large lake trout, namayoush, [salmo amethystus,] and white-fish, attihawmeg, [coregonus àlbus,] for the western market—from 900 to 1,000 barrels of these fine fish being salted and packed for sale each year.

The siskawit may be said to be peculiar to the shores of this island, few being caught on the shores of Keweenaw Point, and their migrations being extremely limited. They are caught readily by the hook, but are more commonly taken by means of gill-nets, which are set a yard or two from the bottom, in water of about 200 feet depth—the lower edge of the net being anchored by means of small stones attached to cords, while the upper edge is sustained vertically by means of thin laths or spindles of light wood. These nets are set

at night, and are drawn in the morning.

The siskawit weighs from five to twenty pounds, while the lake

trout often weighs as much as forty or fifty pounds.

Of all the fish caught upon the lake the siskawit is most prized by the natives on account of its fatness. White-fish are, however, much more delicate, and are preferred to all others by the white inhabitants and travellers.

The fisheries of Lake Superior are of great value to the people living upon the shores of the lake, and of some importance to the States bordering on the other and lower lakes, and the inland towns near their borders. To the poor Indian the bounties of the great lakes are of vital importance, for, without the fish, the native tribes would soon perish. Game has become exceedingly scarce in these thickly wooded regions, only a few bears, rabbits, and porcupines, and some partridges, being found in the woods, and ducks in moderate numbers upon the waters.

Agriculture has scarcely begun to tame the wilderness in the vicinity of the copper mines, and the only crops raised are potatoes

and a few hardy northern esculents. Small cereal grains—such as oats, barley, and rye—will do well here as in Canada; and Indian corn of the northern varieties, in places not too much exposed to the chill breezes of the lake, thrives and ripens. English grasses have not yet been cultivated, but they will undoubtedly thrive as well on the south shore of Lake Superior, as in New Brunswick and Nova Scotia. The native grasses are abundant and good, but are limited to small natural prairies or to dried up ponds. Judging from the luxuriant growth of forest trees—such as the maple, yellow birch, and other trees common to Maine and New Brunswick—we should judge that the soil was as good on the shores of Lake Superior as in that State and province.

Those who have only viewed the immediate coast of the lake, especially that now densely covered with a tangled growth of small, stunted spruce and fir trees, would be likely to undervalue the agricultural resources of that region. They should remember that the cold air from the lake affects the vegetation only near its shores, and that farther inland the temperature more resembles that of Canada and the northern parts of New Hampshire and New York. This is not only shown by the native forest trees and the flowering plants, but also, where clearings have been made to a sufficient extent, by the agricul-

tural produce raised upon the soil.

The forests also are filled with excellent timber for building purposes; and, where the growth is of mixed trees, such as sugar-maple; yellow birch, and pines, the white and yellow pines are of large dimensions, and furnish good lumber for sawing into boards, planks, and deals. Though there is little prospect at present of sending sawed boards from Lake Superior to the lower lake country, the time will come when this valuable timber will become of commercial importance; and that time will arrive the sooner if the ship canal now proposed at the Sault de Sainte Marie shall be constructed within any reasonable time.

The northern or British shore of Lake Superior has as yet been but little explored, either geologically or for minerals. One mine of blende, or sulphuret of zinc, richly mixed with spangles of native silver, and a vein of sulphuret of copper, have been discovered at Prince's bay, on the north shore, not far from Isle Royale. I know not what progress has been made in developing the ores of this mine, but at the time when I examined it, in 1847, it gave promise of rich returns. a general thing the copper on the northern shores is mineralized by sulphur, and occurs as yellow copper pyrites, or as gray or black sulphurets of copper, while the copper on the south shore and on Isle Royale is mostly in the metallic state, and all the valuable workingmines are there opened for the native metal. This is a remarkable reversion of the usual laws of mineral veins, and was first discovered and pointed out by myself, and the first mines for native copper were opened by my advice and in accordance with my surveys, in 1844, as before stated. This remarkable region has certainly surprised both geologists and miners by its wonderful lodes of native copper, and by the lumps of pure silver which have been opened and brought to light by enterprising companies and skilful miners.

One of the most remarkable associations of metals is here observed in the intermixture of pure silver with pure copper, the two metals being perfectly united without any alloying of one with the other. This singular condition of these two metals has puzzled chemists and mineralogists; and the solution of the problem of their mode of deposition in the veins is still undiscovered. It is obvious, from experiment, and from all we know of the affinities of metals for each other, that the native copper was not injected in a molten state into the veins. Although I have discovered the manner in which the copper veins were probably formed, I am far from having learned that of the silver, for we know of no volatile salt, or combination of that metal. This subject, which has occupied much of my time for several years, will be explained more fully at a future time, in a paper addressed to scientific men, as it does not form a suitable subject for a mere popular essay like the present communication; and, as before observed, is still an uncompleted study.

The rocks known to belong to the cupriferous formation of Lake Superior are all of igneous formation, or have been thrown up from the unknown interior of the globe in a molten state, and in long rents, having a somewhat crescentic shape, with the curve toward the north and west; the radius of the arc not being far from thirty miles in length on Keweenaw Point. The average width of this belt is not more than five miles, while its length is not less than two hundred miles. The Keweenaw belt of trap runs by the Ontonagon river, narrowing to only a mile in width in some parts of its course, and then widening rapidly

as it extends into Wisconsin.

On the Ontonagon river it is about four miles wide; and it is there highly cupriferous, several important veins, now wrought by mining companies, having been discovered by the miners in their employ, on this river and in its vicinity. The Minnesota mine has been, thus far, the most successful of those opened upon this part of the trap range. It is remarked by all the geologists and miners who have examined these rocks, that the copper ore lies in the amygdaloidal variety of them; and that the veins of native copper are pinched out into narrow sheets in the harder trap-rock which overlies the amygdaloid. This fact was first noticed by Mr. Alger and myself in the geological survey of Nova Scotia, made by us in 1827; and the private geological surveys which I made on Keweenaw Point, in 1844 and 1845, proved it to be true also in that region; so that it is a law now well known to the miners upon the Lake Superior land district. It was discovered, also, that the copper dies out in the veins when they cut through sandstone The reason for this I have discovered, and proved by experiment and observation, and shall farther verify when ordered to complete my government survey of the mineral lands of the United States

Much may be expected from the explorations now going on upon the northern shore of the lake, under the authority of the Canadian government, since the wisdom of that province has perceived the importance of rendering her researches and investigations into the mineral treasures of her soil the most effectual and complete, and has consequently introduced them to most the most the results complete to the task

intrusted them to men the most thoroughly competent to the task.

Experienced miners are often good observers, and to them we owe much valuable observation; but they are not often sufficiently acquainted with geology and mineralogy to enable them to judge of the value of a mine in a country with which they are not familiar; and they cannot describe what they discover so as to make their observations intelligible or valuable to others. Miners are good assistants, but poor principals, in any geological survey. Hence the British government employs her most learned and practical geologists in her surveys in Canada, and allows them time and means to accomplish in a proper manner their important work.

On the northern shores of the lake, as before observed, we find most commonly the ores of copper; while in the trap-rocks, on the south side, the metal occurs in its pure metallic state. The ores which have been found on Lake Huron already promise to give ample profits to the owners of the mine; and other localities are known, where there is a reasonable prospect of successful mining, on the northern borders of

Lake Superior.

Trade will spring up between us and our Canadian neighbors as soon as their shore becomes inhabited, and, it is to be hoped, will prove of reciprocal advantage to the two countries.

C. T. JACKSON.

THE LAKES.—GENERAL VIEW.

This is a brief and rapid outline of a country, and a system of waters, strangely adapted by the hand of Providence to become the channel of an inland navigation, unequalled and incomparable the world over; through regions the richest of the whole earth in productions of all kinds—productions of the field, productions of the forest, productions of the waters, productions of the bowels of the earth—regions overflowing with cereal and animal wealth, abounding in the most truly valuable, if not most precious, metals and minerals—lead, iron, copper. coal—beyond the most favored countries of the globe; regions which would, but for these waters, have been as inaccessible as the steppes of Tartary or Siberia, and the value of the productions whereof must have been swallowed up in the expense of their transportation.

And this country, these waters, hitherto so little regarded, so singularly neglected, the importance of which does not appear to be so much as suspected by one man in ten thousand of the citizens of this great republic, is certainly destined to excel in absolute and actual wealth, agricultural, mineral, and commercial, the aggregate of the other portions of the United States, how thrifty, how thriving, how

energetical and industrious soever they may be.

Of these lakes and rivers, during the year 1851, the commerce, foreign and coastwise, was estimated at three hundred and twenty-six million five hundred and ninety-three thousand three hundred and thirty-five dollars; transacted by means of an enrolled tonnage of seventy-seven thousand and sixty-one tons of steam, and one hundred

and thirty-eight thousand nine hundred and fourteen tons of sail, or an aggregate licensed tonnage of two hundred and fifteen thousand nine hundred and seventy-five tons.

In the prosecution of this commerce, it would appear, as nearly as can be ascertained, that there was entered an aggregate at all the lake ports together, of 9,469,506 tons during the season; and cleared at the same ports 9,456,346 tons—showing an average of nearly forty-four entrances of the whole lake tonnage during the season.

Of the above amount of commerce the value of \$314,473,458 went

coastwise, and \$12,119,877 Canadian or foreign.

The returns of the coasting trade are, it is true, very imperfect and unsatisfactory, as are also the estimates founded upon them; but, as approximations only can be arrived at under the circumstances, the best use has been made of the returns received; and the results arrived at cannot but appear strange to those not immediately conversant with the character of the lake trade.

According to these estimates the coasting trade is divided into exports, \$132,017,470; and imports, \$182,455,988; showing a difference of \$50,438,518, when there should have been a perfect balance. This discrepancy arises from a higher rate of valuation at the place of importation than at that of exportation, or vice versa. Products of agriculture, the forests, and the mines, are easily valued at a correct rate; whereas one great division of articles of importation, classed as merchandise, including everything from the finest jewelry and choicest silks to the most bulky and cheapest articles of grocery, can scarcely be reduced to a correct money value.

The discrepancy, then, arises from the valuation of the articles per ton being fixed at too high a figure at one port, or too low at another. Which valuation is the more correct, it is impossible to ascertain under

the present system of regulations.

Taking the lowest estimate, the actual money value of the coastwise exports of these lakes is \$132,000,000, in round numbers, being the mere value of the property passing over the lakes, without including passage money, passengers carried, cost of vessels, expenses of crews,

or anything in the least degree extraneous.

The amount of grain alone which was transported during the season of 1851, amounted to 1,962,729 barrels of flour, and 8,119,169 bushels of wheat—amounting to what equals an aggregate of 17,932,807 bushels of wheat; 7,498,264 bushels of corn; 1,591,758 bushels of oats; and 360,172 bushels of barley; in all 27,382,801 bushels of cereal produce. This branch of traffic, it is evident, must continually increase with the increasing influx of immigration, and the bringing into cultivation of the almost unbounded tracts of the very richest soil, on which the forest is now growing, which surround the lakes on almost every side. And the like may be predicated of the exploitation of the mines, the prosecution of the fisheries, and the bringing to light of all natural resources—facilities of transportation causing immigration, immigration improving cultivation and production, and these two originating commerce, and multiplying a thousand-fold the wealth, the rank, and the happiness of the confederacy.

No. 1.—Statement exhibiting the trade and tonnage, American and Canadian, the tonnage enrolled, and the amount of duties collected, in each of the collection districts on the lakes, and the aggregates of the whole lake commerce, for the year ending Dec. 31, 1851

	COASTING	COASTING TRADE.		CANADIAN OR FOREIGN TRADE.	REIGN TRADE.	,
				Exports	rts.	
Names of the several collection districts, commencing at the east and proceeding west.	Exports.	fmports.	Domestic produce.	Foreign mer- chandise.	Foreign merchan-Aggregate ex- diss entitled to ports.	Aggregate ex- ports.
	Value.	Value.	Value.	Value.	Value,	Value.
	\$ \$20,858,426	\$3,455,194	\$458,006 375,549	\$108,712 267,587	105.866	\$767,572 749,002
Oswegatchie*	918, 587	2, 424, 145	252,050	98, 424	268, 174	618, 648
	303, 258 11, 471, 071	497, 809 6, 083, 036	21, 980 21, 980 2, 391, 911 445, 967	654, 765 335, 708	261, 135 131, 979	21, 980 3, 207, 811 913, 654
Niagarado	433,634	236, 684	426, 761	59,059	99, 964	585, 784 613, 948
President State Otto	1, 601, 857	2, 207, 582 22, 804, 159	15,415	# 1		15,415
	6, 459, 659 7, 847, 808	15, 985, 357 22, 987, 772	99, 088 66, 304		2	99, 088 66, 304
	6, 961, 430 2, 000, 000	3,000,000	080,800	5, 544	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tro orr
Milwaukie	4, 564, 797 5, 895, 471	19, 560, 713 25, 325, 052	116, 185	1		116, 185
Grand totals	132, 017, 470	182, 455, 988	5, 495, 082	1, 626, 548	1, 086, 130	8, 207, 750

^{*} Had the coastwise exports from this district been valued at the same price per ton, in the article of merchandise, which ruled in the valuation of some ether districts, the amount of exports would have been increased by the sum of \$2,725,269, or fully three hundred per cent.

Names of the several collection districts, coin mencing at the east and proceeding west. Foreign goods an produce free o duty. Vermont.	Foreign goods and Foreign goods and Foreign goods and produce in bond. any. Falue. rts.				
1 4	of produce in bond. Value. **Table 27, 994	2			
Δ. A.		Foreign goods and produce paying duty.	Aggregate im- ports.	Aggregate trade with foreign countries.	Aggregate amount of du- tles collected.
V V		Value.	Value.	Value.	
		\$227, 419	\$266, 417 294, 284	#1, 033, 989 1, 043, 986	#47, 152 £1 849
71 Qp 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		91, 459	214, 520	633, 168	19, 367
****		61, 358	61,358	93, 747	13,705
OSWEGO	-	56, 119	56, 119	48,099	16,400
op	1, 554, 540	455, 153	1,784,413	4, 992, 223	10,539
ор		93,081	103, 986	689, 769	19, 957
Presque Isle 2 000	100, 490	386, 744	507, 506	1, 121, 454	92, 357
Ohio	0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	360, 634	360, 634	645,570	93,784
		75,628	75,628	174, 716	6,759
Detroit.		26, 470	26, 470	92, 774	7,519
		90, 941 3, 967	3,967	3, 967	23, 034 818
Milwaukie Chicago	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	5,811	5,811	121, 996	1,386
Grand totals 94, 464	1, 593, 324	2, 224, 359	3, 912, 147	12, 119, 877	493. 475

	AGGREGATE OF LAKE TRADE.		TONNAGE	AGE,		
Names of the several collection districts, commencing at the east and proceeding west.	Grand total of the	Enrolled	led,	Entered.	Cleared,	
	lake commerce, 1851.	Steam.	Sall.	Foreign and coasting.	Foreign and coasting:	
	Value.	Tons.	Tons.	Tons.	Tons.	,
VermontVt.	826, 390, 898	3,240	692	197,500	197, 500	_
	4, 175, 900	1,985	576	951, 427	359, 287	
	93,747		2, 496	439, 930	439, 930	
	879, 166	343	6, 763	348, 436	347, 393	•
	92, 546, 330	4, 382	21,941	721, 383	685, 793	_
	1 360 087	100	20%	212, 794	212, 794 405, 660	
	89, 268, 537	92, 438	23, 620	1, 536, 089	1, 551, 441	
	3, 828, 309	5,961	2,249	316, 121	314,640	
	35, 476, 226	11, 355	24,716	775, 720	755, 690	
	22, 619, 732	73	4, 785	509, 782	504, 633	
	30, 928, 354	1,158	880 83 65, 65,	418, 892	419, 943	
	27, 591, 362	¥1,944	18, 475	905,640	920, 690	
*****************	5, 003, 967	1,747	1,409	253, 600	253, 600	
ALLIWANIKIO pret race tree tree tree tree tree tree tree tr	94, 125, 510	282	. 2,659	1,250,000	1,250,000	
Valicago 111	31, 342, 519	202	22, 396	806, 432	807, 353	
Grand totals	326, 593, 335	77, 061	138, 914	9, 469, 506	9, 456, 346	
STATE STATES OF THE STATES OF	habdhuaile Theore Digits Sheets and parties of	and british	Part Care Green	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Water the Control of	

No. 2.

Statement showing the quantity and value of the principal articles imported into each collection district on the lake frontier, from Canada, during the year ending December 31, 1851.

					THE 1	THE FOREST.					
District.	Sawed lumber.	lumber.	Timber—squ	Timber—square and round.	Shingles.	gles.	Railroad ties.	nd ties.	Furs.	Ashes—pot and pearl.	and pearl.
	M feet.	Value.	M cubio feet.	Value.	M.	Value.	No.	Value.	Value.	Casks.	Value.
Vermont Champlain Oswegatchie Cape Vincent Sackett's Harbor Oswego Genesce Ningara Buffalo Presque Isle Cuyahoga Sandusky Mani Detroit Mackinaw Milwaukie	10, 476 10, 668 279 80 80 104 62, 527 3, 628 2, 901 30, 396 6, 471 313 828 6 64	\$48, 181 50, 088 1, 594 408 326, 344 14, 206 14, 474 141, 024 14, 024 1, 504 1, 504 1, 504 1, 504 1, 504 1, 504	955 939 939 1,234 1,234 1,234 060	\$6,688 44,724 724 1,104 1,104 10,891 168 35,888 35,888 23	1,094 72 72 6,481 4,694 2,749 1,842 1,842 1,842 1,842	\$712 66 4,457 4,499 2,737 1,886 1,886 44	3, 254 3, 558 18, 065 1, 981 16, 424	\$3,032 177 761 761 2,324 2,324	\$1,344 1,800 1,500 1,500 347 132 3,761 2,761	234 201 263 263 161	\$7, 188 3, 864 11, 675 4, 997 2, 421
Total	128, 065	637, 838	2,791	101, 603	17, 158	16, 644	72, 282	6, 550	11, 470	1,473	30, 145

	THE V	THE WATERS.			AGRIC	AGRICULTURE AND MANUFACFURES.	MANUFACT	URES.		
Districts.	Fish—all kin	Fish—all kinds, reduced to	Flour, o	Flour, of wheat.	Wheat.	eat.	Oats.	ts.	Bar	Barley.
	Barrels.	Value.	Barrels.	Value.	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.
Vermont Champlain Oswegatchie Cape Vincent Sackett's Harbor Oswego Genesee Niagara Buffalo Presque Isle Cyahoga Sandusky Miami Detroit. Mackinac Milwaukie Clicago	250 536 98 111 113 989 1,108 2,491 40 1,672 399 80	\$1,862 3,636 445 4,070 7,267 7,267 7,267 85 5,692 7,993	30, 610 5 5 259, 875 17 11, 960	\$94,694 12,28 861,931 51,51 202 39,867	626 18, 185 270 153 670, 202 173 6, 679 101, 655 450	\$1,034 10,445 133 101 441,267 4,581 66,075 22,22	101, 565 162, 902 28, 471 902 108 78, 771 3, 564 2, 376 2, 376 2, 404	\$24,933 32,174 5,417 136 25 16,582 513 513 694 694 694	8, 367 2, 657 2, 657 23, 511 19, 615 3, 097 4, 711 6, 315	\$3,322 1,065 1,065 14,543 11,769 11,333 3,356
Total	4,776	24, 490	30%, 548	996, පිහි	798, 430	534, 016	383, 259	81,813	71, 170	38, 923

				AGRIC	ULTURE AND	AGRICULTURE AND MANUFACTURES.	TRES.			
Districts.	Rye.	70.	Peas and beans.	l beans.	Pota	Potatoes.	Eggs.	gre.	- Ħ	Hops.
	Bushels.	Value.	Bushels.	Value.	Bushels.	Value.	Dozen.	Value.	Pounds.	Value.
Vermont Champlain Oswegatchie Cape Vincent Sackett's Harbor Oswego Genesee Genesee Guyaboga Sandusky Mian Detroit Mackinac Milwaukie	1, 201 1, 201 73 53, 950 87 87	\$308 491 116 29 19, 300	5, 535 12, 397 6, 348 1, 164 1, 157 1, 225 1, 225 1, 225	\$2,229 3,685 2,503 38 22,134 22,134 573 646 376	5, 958 2, 298 11, 959 11, 476 133 1, 355 5 264 696	\$923 478 2,148 19 2,361 418 418 2 68 08	250, 279 275, 033 19, 186 5, 050 4, 894 18, 852 18, 852	\$12,584 13,727 1,082 1,082 331 365 962 933	29, 200 35, 445 3, 655 3, 000	\$2,540 2,129 395 378
Total	56, 878	55, 279	89, 296	32, 675	34, 282	7,685	573, 633	29, 050	71, 300	5, 442

STATEMENT-Continued.

				AGRIC	JÚLTURE AN	AGRICULTURE AND MANUFACTURES.	URES.			
Districts.	But	Butter.	W001.	.jol.	Flax	Flax seed.	Clover and	Clover and grass seed.	Fruit.	Rags.
	Cwt.	Value.	Pounds.	Value.	Pounds.	Value.	Pounds.	Value.	Value.	Value.
Vermont. Champlain. Oswegatchie. Gape Vincent. Sackett's Harbor. Sackett's Harbor. Sackett's Burbor. Niagara. Buffalo. Iresque Isle. Cuyahoga. Sandusky Miami. Detroit. Mackinac. Milwaukie.	1,724 1,707 1,716 1,716 189 189 189 189 189 253 2	\$13,309 13,723 13,723 4,375 1,080 652 1,191 1,191	71, 089 9, 851 55, 598 14, 664 6, 273 82, 908 64, 447 95, 604 115, 878 2, 200	\$9,138 1,307 7,692 2,504 14,158 10,217 13,404 18,068 3,444	5,770	\$4,428	1, 950 16, 675 1, 535 6	\$4,000 4,635 3,734 4	#99# 581 581 72 72 959	\$2, 093 2, 609 7794 128 470 158
Total	5, 297	40, 920	539, 063	80,810	5,770	4, 428	20, 166	12, 373	1,732	6,252

	Beef and pork.	Value.	\$2,776 859 343 32 32 248 248 4,469	()
	Beef an	Barrels.	290 145 45 6 6 6 6 6 6	22.0
	пе.	Value.	\$211 107 531 574 574 865 2, 886 2, 461 2, 461 7, 185	, i
JRES.	Swine.	No.	91 50 464 634 634 1, 279 1, 492 1, 493	2006
AGRICULTURE AND MANUFACTURES.	Sheep.	Value.	\$5,650 3,693 2,931 2,02 1,165 2,541 5,541 106 106	1
ULTURE ANI	She	No.	5, 953 163 2, 299 4, 002 1, 80 1, 647 1, 174 464 464 19, 283	
AGRIC	le.	Value.	\$28,133 21,039 18,062 37 37 2,580 26,401 3,188 10 247 4,189 1,337 11,328	,
	Cattle.	No.	2,586 808 808 2,981 33 35 161 1,965 530 14 14 92 92 92 11,752	
	Horses.	Value.	\$53.865 44,282 19.717 4.783 1,467 3,566 6,072 17,992 3,879 3,879 163 11,073 11,073 11,073	,
	Hor	No.	2, 310 1, 871 177 177 48 101 78 344 114 11 5 6	•
	Districts.		Vermont Champlain Oswegatchie Cape Vincent Sackett's Harbor. Oswego Genesee. Genesee. Huiklo. Presque Isle Cuyahoga. Sandusky Miand. Detroit. Mackinac. Milwuhkie. Chicago.	

*			S. Doc. 112.
**	Total value.		\$266, 417 294, 284 214, 580 61, 358 66, 119 1, 784, 412 49, 040 103, 985 507, 506 3, 455 39, 634 75, 628 75, 6
MISCELLANEOUS.	Unenumer- ated.	Value.	\$40,947 21,427 21,427 21,427 22,266 20,480 13,862 3,409 26,206 3,137 47,926 821 75 92 75 92 75 92 75 92 75 92 75 92 75 92 75 92 75 92 75
*	Hides, skins, &c.	Value.	\$162 677 316 2, 377 306 1, 739 8, 273 21 21 524
	Salt.	Value.	\$1,204 1,935 1,089 1,089 1,75 264 . 2,799
	<u> </u>	Bushels.	19,713 21,088 26,000 6,000 550 800 17,024
	Coal.	Value.	\$255 183 438
MINES.	<u>ల</u>	Tons.	255 40 40 295
PRODUCTS OF MINES.	Pig and bar iron.	Value.	\$20, 3703 3, 793 22, 396 42, 42 143 1678 678 87 179 179 179 179
4.	Pig and	Tons.	115 632 951 3 6 6 86 86 851 84 24 239 239 239 24 851 851 851 851 851 851 851 851 851 851
	Railroad iron.	Value.	\$8, 616 49, 476 136, 159 22, 248 46, 423 46, 423
	Railro	Tons.	305 2, 045 5, 091 10, 918 2, 218 1, 801 1, 801
	Districts.		Vermont Champlain Champlain Cape Vincent Sackett's Harbor Oswego Genesee Blifajo Presque Isle Cuyahoga Sandusky Mismi Detroit Mackinac Milwaukie Chicago

No. 3.

Statement exhibiting the quantity and value of some of the principal articles of domestic produce and manufactures exported from the collection districts on the lake frontier to Canada during the year ending December 31, 1851.

	nd turpentine.	Value.	\$1,459 1,130 564 2,967	6,510
DREST,	Pitch, rosin, and turpentine.	Barrels.	162 150 89 933 963	1,310
TRE FOREST.	Furs, &c.	Value.	\$3,506 434 1,998 23,125 1,150 10,791	41,004
	Fura	Pounds.	8,300 800 127,600 1,950 57,062	193, 012
	Bone, &c.	Value.	#20 9	504
	Bone	Pounds,	1, 386	1,388
	h.	Value.	\$1,779 143 2,452 1,194 1,916 4,613 4,603	16, 981
THE WATERS.	Fish.	Barrels.	375 77 645 1, 108 372 69	2,646
	.83	Value.	\$6,395 9,021 7,639 18,512 5,374 3,421 4,375	55, 064
	Oils.	Gallons.	11, 185 13, 737 11, 040 20, 309 10, 160 3, 773 4, 450	74,875
	Districts.		Vermont, Champlain, N. Y Champlain, N. Y Cape Vincent, N. Y Cape Vincent, N. Y Gackett's Harbor, N. Y Genesee, N. Y Genesee, N. Y Buffalo, N. Y Buffalo, N. Y Presque Isle, Penn Cuyahoga, Ohio Sandusky, Ohio Detroit, Mich Mackinac, Mich Mackinac, Mich Mackinac, Wisk	Total

	ese.	Value.	\$867 1,230 2,340 2,496 2,496 828 828 828	10,341
	Cheese.	Pounds.	6, 814 24, 004 6, 000 12, 048 60, 232 44, 565 12, 348 12, 569 17, 750	170,789
	er.	Value.	\$3, 979 250	4,375
• •	Butter	Pounds.	28, 900	32, 450
	nd fard.	Value.	\$805 1,246 10,440 7,538 13,291 10,862 16,405 160 5,944 1,014	30, 702
CTURE,	Tallow and lard	Pounds.	13, 016 156, 600 156, 600 20, 819 71, 700 200, 491 154, 191 403, 800 3, 000 24, 310 13, 600	1,716,429
AGRICULTURE.	II.	Value.	\$2077 4 4 68,099 8,946 72,833	150, 307
	Flour.	Barrels.	89 1 20,097 30,2556 23,062	45,835
	d beef.	Value.	\$520 1,998 960 7,440 5,238 17,306 48,074 2,550	133,001
	Pork and beef.	Barrels.	41 140 668 668 1,442 3,698 3,698	10,724
,	Animals.	Value.	\$2,013 400 2,384 1,665 1,805	8, 379
	Ani	No.	179 20 20 25 8	427
	Districts.		Vermont Champlain, N. Y. Oswegatchie, N. Y. Cape Vinceut, N. Y. Sackett's Harbor, N. Y. Oswego, N. Y. Genesee, N. Y. Buffale, N. Y. Niagara, N. Y. Buffale, N. Y. Sandusky, Ohio Miami, Ohio Miami, Ohio Detroit, Mich Mackined, Mich Milwaukie, Wich	Cincago, Ill

	Hops.	Value.		\$2,321	35			2, 356	
	Fruits.	Value.	\$2,816 4,066	39 2, 617	1			9,538	
	grain.	Value.	\$377	7, 140	5, 399		105	7,029	
	Other grain.	Bushels.	499	7, 000	8,742		350	12, 149	
	30,	Value.	\$5,317 3,985 1,773	11,039	543			22, 657	
URE.	Rice.	Pounds.	310, 944 304, 120 36, 750	139, 500	12, 295		. 1	803, 609	
AGRICULT	AGRICULTURE,	Corn.	Value.		\$2,820	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	44, 741 3, 340	907	66, 635
	ပိ	Bushels.	1 1 1	5,640	1	103, 540	3,075	162, 898	
	eat.	Value.	\$131	340		129, 453 80, 605	2,146	221,867	
	Wheat.	Bushels.	148	412		183, 906 121, 672	2,862	324, 320	
	d skins.	Value.	\$14,153 1,800	28,366	847	48	2, 234	47,448	
	Hides and skins.	Number.	131, 100	209, 732	8, 813	88	769	380, 874	
	Districts.		Vermont, Vt. Champlain, N. Y. Oswegatchie, N. Y.	Sackett's Harbor, N. Y Oswego, N. Y.	111	Cuyahoga, Ohio	Detroit, Mich Mackinac, Mich Milwaukie, Wis Chicago, Ill	Total	

	n.e.	rinrid	\$3,265 6,146 7,986 150 13,828 6,122 13,787 30	51,313
	-apo	Dry go	\$31,820 \$7,240 8,524 11,041 12,816 7,291 107,554 35 945	217,013
TURES.	and manu- ctures.	,looW sì	\$49, 887 8, 137 42, 243 213, 565 56, 719 5, 571	376, 192
MANUFACTURES	and manu-		\$108,977 63,932 28,702 10,397 84,736 92,776 10,797 2,130	402, 447
	etures.	s ,norl	\$75.847 53.507 40.335 3.900 4,605 174,087 71,840 18,277 1,480 564 4,877	453,739
	and manu- ctures.		\$5,599 2,648 2,183 2,645 5,688 6,294 6,294 7,129	86, 502
	articles of culture.		\$570 340 289 17,629 17,629	21,787
	Broom-corn.	Value.	\$745 8, 317 1, 808	15,852
		Tons.	256 484 50 50	807
AGRICULTURE.	·d	Value.	\$1,970 2,702 2,702 1,319 1,319 9,761	19,694
AGRIC	Hemp.	Pounds.	30, 000 22, 000 44, 000 20, 400 164, 367	332, 767
	.000.	Value.	\$35,433 41,317 41,971 165,837 3,039 9,785 10,177	307, 540
	Tobacco.		274, 993 410, 092 206, 784 799, 180 25, 640 87, 882 49, 259	1,853,190
	Districts.		Vermont, Vt. Champlain, N. Y. Champlain, N. Y. Oswegatchie, N. Y. Cape Vincent, N. Y. Sackett's Harbor, N. Y. Cowego, N. Y. Conesco, N. Y. Nigara, N. Y. Buffalo, N. Y. Presque Isle, Penn. Cuyahoga, Ohio. Sandesky, Ohio. Mami, Ohio. Detroit, Mich. Mackinac, Mich. Mackinac, Mich.	Total

	Total.	:	\$458,006 375,549 252,050 33,189	2,291,911	426, 761	15,415	99, 088	109, 690	116, 185	5, 495, 873
	Uncrumer- ated articles,		\$47,770 101,538 13,931 3,460	3, 158 1, 929, 3-7 7-8, 27	25×, 946	PCO X	9,02,0	13,412	122	1,807,993
	Coal.	Value.	\$544	22,193	000	13,741	0,210	1, 172	1 4 1 1 7 1 1 2 1 6 1 4 9 1 1 1 7 1	48,814
KATURAL.	Salt.	Value.	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	\$67,193	239	2,242	96	1,302	25	91, 123
	lime, clay, gypsum.	,enos2 bas	93, 177 2, 563 269	30,084	4,445	4,207	5,00,5 194	1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	48,611
	-onote bas c		\$645	5, 194		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	202	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		6,282
	sod manu-		\$3,615 1,950			9,919	9	· · · · · · · · · · · · · · · · · · ·	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	94, 581
	*32 % 489	тээот	\$6,137 5,720 8,011	1, 143 8, 655	6, 2/ 6, 2/ 6, 2/ 6, 2/	56,990		1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	96, 589
RES.	Tobacco manufac-		\$1,346 2,030 12	23, 955					1 1 1	27, 393
HAWUFACTURES.	distilled.	Spirits,	\$1, 125 2, 179	4,868	1,522	2,3%	1 1	77.	£	12, 395
***	sad medi-	egurd o	\$5,767 1,150 541	13,248	:	10, 333	*	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	42, 695
	Books and sta- tionery.		\$13,295 7,664 3,849	596	31,731	17, 167	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	823	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	93, 929
	, and man.		\$26,385 26,385 17,314	55, 942	12, 163 19, 544	23, 427		2,260	1	174,212
	Distrícts.			Sackett's Harbor, N. Y	Genesee, N. Y	Buffulo, N. Y	Cuyahoga, Ohio	Miami, Ohio	Mackinac, Mich Milwaukio, Wis Chicago, Ill	Total

No. 4.

Statement showing the value of some of the principal articles of foreign merchandise exported from the collection districts on the lake
. frontier to Canada during the year ending December 31, 1851.

		FREE	FREE GOODS.			MANU	FACTURES A	MANUFACTURES AND AGRICULTURE.	TURE.	
Districts,	Tea.	.g.	Col	Coffee.	Oils, sperm, Oils, palm etc. and olive.	Oils, palm and olive.	Wine.	Brandy.	Drugs and medicines.	Toys,
	Pounds.	Value.	Pounds.	Value.			Val	Value.		
Vermont Yernout 376, 767 \$100, 703 Champlain New York 665, 176 165, 544 Oswegatchie do 247, 825 97, 684 Cape Vincent do 825, 606 423, 057 Oswego do 825, 606 423, 057 Oswego do 9, 992 Niagara do 13, 328 50, 445 Buffalo Penneylvania 63, 880 Presque Islo Penneylvania 63, 880 Cuyahoga Ohio 60 Mismi do 16, 380 Mackinac do 4, 302 Mackinac do 16, 380 Mackinac 4, 302 Mackinac 11inois	376, 767 665, 176 247, 825 825, 606 32, 480 131, 328 143, 457 16, 380	\$776, 767 \$100, 703 \$655, 176 \$42, 654 \$7, 684 \$7, 684 \$7, 684 \$825, 606 \$423, 057 \$825, 606 \$423, 657 \$133, 328 \$50, 445 \$143, 457 \$63, 880 \$16, 380 \$4, 302 \$16, 380 \$4, 302 \$16, 380	85, 423 89, 871 8, 996 359, 512 37, 314 46, 849	\$6,899 23,711 1,290 37,220 3,704 4,470		\$6,711	\$620 10, 164 690 11, 416 1, 367 1, 367 1, 367	\$109 331 2,984 1,389 1,77	\$523 2,788 497 1, 869 1, 889 5, 391	\$1,289 2,342 465 1,261
Total	2,429,019	915, 007	638, 525	77, 680		8,046	24, 552	4,910	11,997	5,800

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				MANUE	ACTURES AN	MANUFACTURES AND AGRICGLTURES	RE			
Districts.	Dyes.	Sugars.	Groceries not enumerated.	Oranges.	Lemons.	Raisins:	Fruits.	Cigars.	Nuts.	Pepper
					Value.	.61		-		
Vermont. Vermont. Champlain 0swegatchie do Oswegatchie do do Cape Vincent do do Sackett's Harbor do do Oswego do do Buffalo do do Niagara do do Buffalo Pennsylvaria do Presque Isle Pennsylvaria do Cuyadoga do do Miami do do Miami do do Machinac do do Milwaukie do Michigan Milwaukie Wichigan do Milwaukie Wisconsin Chicago Milinois Illinois Illinois	\$837 3,395 96 96 11,735 468	\$29, 079 24, 399 9, 954 107, 526 6, 009	\$2,453 5,661 5,661 5,850 315		\$343 \$2,490 \$343 \$743 \$763 \$68	\$2,605 3,291 3,296 8,626 1,191	\$3,481 2,582 715 5,563 5,563	\$2,632 6,340 839 7,572 1,747	\$1,312 2,936 180 46 473	\$725 3,540 490 302 54
Total	6,778	176, 967	14,834	343	3, 233	19, 250	12,627	19, 130	4, 942	5, 111

	ed Total.		\$309,566 373,453 366,598 366,598 1159,000 11 467,687 115,107 5 344	2,7		
	Unenum'rate articles.		\$23,979 46,195 12,483 46,515 42,331 5,257 2,448	179, 266		
	Hardware. Manufact's Manufact's Manufact's Drygoods. Hides & leath-Unenum'rated of wool. of cotton. of silk.		\$11,949 30,873 16,637 27,609 1,601 357 4,726	93, 802		
JULTURE.	Dry goods.		\$33,550 4,601 159,516 30,313 108,465 21,270 16,639	374, 354		
MANUFACTURES AND AGRICULTURE.	Manufact's of silk.	Value.	\$40,006 9,174 16,915 48,777 60,975 41, G70	217, 517		
ANUFACTURE	Manufact's of cotton.		\$7, 885 4, 333 11, 522 11, 522 62, 864 140, 363 13, 038	240,055		
Ä	Manufact's of wool.		\$8,111 395 18,544 16,671 9,350	191, 444		
	Hardware.				\$9,209 7,783 10,974 23,440 1,751 4,255	57, 421
	Jewelry.		\$21, 433 228 3, 534 3, 411 1, 471 4, 164	34, 241		
	Earthen ware,		\$238 6,318 4,185 279 17 1,685	12,771		
	Districts,		Vermont Vermont Champlain New York Oswegatchie do Cape Vincent do Oswego do Oswego do Genesne do Buffalo do Buffalo do Presque Isle Pennsylvania Chyahoga Ohio Miami do Miani do Machigan Michigan Machina Michigan	Milwaukle , Wisconsin. Chicago . Illinojs Total		

No. 5.—Statement exhibiting the export trade of the collection districts on the lake frontier with Canada during the year 1851, distinguishing between foreign and domestic produce, and showing what portion of the former was entitled to drawback, and whether exported in American or British vessels.

	ENJ	TITLED TO	ENTITLED TO DRAWBACK,		FOREIG	FOREIGN MERCHANDISE,	NDISE.	DOM	DOMESTIC PRODUCE.	CE.	AGGREGATE.	3ATE.
Districts.	American vessels.	British vessels.	Total.	Duties.	American vessels.	British vessels.	Total.	American vessels.	British vessels.	Total.	Exports.	Imports.
	Value.	Value.	Value.	Amount.	Value.	Value.	Value.	Value.	Value.	Value.	Value.	Value.
Vermont Vt Champluin N. Y. Oswegatchle do Cape Vincent do Sackett's Harbor do Oswego do Genesce do Niagara do Buffalo do Presque Isle Pa Cuyaloga do Miami do Miami do Miami do Miawike do Milwaukie Wish	\$200, 105, 105, 105, 105, 105, 105, 105, 1	854 867 867 8107 832 170, 603 722 772 772 772 772 9, 648 851 851	\$200,854 105,866 263,174 261,135 131,979 90,964 18,158 1,086,130	\$51, 849 26, 935 69, 935 69, 801 34, 280 27, 257 4, 264 4, 264	\$108,712 267,587 59,620 287,288 37,942 58,406 5,104	\$8.804 367,477 335,703 28,117 38,543 240	\$108, 718, 267, 568, 967, 568, 968, 948, 958, 948, 948, 948, 948, 948, 948, 948, 94	\$458 006 \$75,549 \$2,369 \$2,369 \$2,369 \$1,136,092 \$2,012,924 \$2,940 \$2,940 \$3,239 \$2,940 \$3,008 \$2,940 \$3,008 \$2,940 \$2,940 \$2,940	\$458,006 52,5549 52,5549 52,5549 52,3549 1,136,092 1,156,992 212,924 213,837 11,365 22,924 23,239 65,940 65,969 2,940 63,364 66,969 2,940 63,364 66,969 2,940 63,364	\$458,006 237,549 282,060 32,339 21,350 22,11,350 22,11,350 22,11,350 284,367 15,415 284,346 10,000 10,000 11,415 284,346 10,000 10,000 10,000 11,415 10,000 10,000 10,000 11,415 10,000 10,000 10,000 11,415	\$767, 572 749, 002 618, 648 32, 389 21, 980 3, 207, 811 913, 604 633, 784 613, 948 66, 304 115, 014 116, 185 8, 207, 730	\$266, 417 234, 284 234, 284 26, 386 61, 386 56, 119 435, 163 49, 634 75, 638 26, 470 98, 541 3, 967 3, 967 3, 967 3, 97 3, 912, 147

No. 6.—Statement giving a tabular view of the Canadian import trade of the lake districts, and also the tonnage entering and clearing at cach port, distinguishing American from British vessels, and steam from sail, during the year ending December 31, 1851.

			Amount.	\$47, 152 51, 849 19, 367 13, 705 16, 400 89, 760 10, 539 19, 357 92, 357 93, 784 5, 759 7, 519 83, 034 818	493, 475
,	tble.	British vessels.		\$24, 246 63, 727 50, 274 260, 941 40, 584 61, 870 239, 220 1, 694 140, 096 18, 098 18, 098 62, 685 875	983, 009
IMPORTS.	Dụtiable.	American vessels.	ue.	\$251, 211 226, 241 227, 221 27, 722 61, 358 61, 358 174, 712 8, 445 11, 761 1, 761 1, 761 1, 761 1, 761 1, 761 220, 538 56, 859 8, 442 35, 855 4, 935	1, 275, 573
,	Free.		Value.	\$23,779 13,803 7,775 14,911 10,904 20,272 3,020	94, 404
	Bonded.			\$15,206 ° 27,994 115,286 115,286 1,334,348 1,00,490 100,490 1 1,500,500	1, 095, 584
	Dierriots			Vermont Vermont Champlain New York Oswegatchie do Gape Vincent do Sackett's Harbor do Oswego do Oswego do Buffalo do Buffalo do Cuyaboga do Miami do Miami do Machinac Michigan Mackinac Wisconsin Chicago Illinois	T.008ll.s.s.s.s.s.s.s.s.s.s.s.s.s.s.s.s.s.s.

				TONNAGE ENTERED	ENTERED			1
		AMERICAN.	ICAN.			FORI	FOREIGN.	
Districts.	ž	Steam.	ΔŽ	Sail.	±200	Steam.		Sail.
	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.
Vermont	166	56, 421		17, 490	122	9, 566	162	10, 758
ChamplainNew York	411	90, 436	74	8, 135	37	3, 899 00, 069	106	20,759
Cape Vincent,do	969	427, 457	:	41,164	22	12, 473	**	0,00
Sackett's Harbor do	197	163, 616		201	2	1,060	22	1,934
Oswegododo.	376	228,842	L,	345,681	48	7, 259	1,087	85,601
Geneseedodo	200	160,000		1,620	91	27, 900	89	3,714
Niagaradodo	212	75,072		964	409	145, 773	22	1,344
Buffalododo	72	18, 493		11,705	295	48, 456	306	23, 755
Presque IslePennsylvania	ov ⊆	680	900	1,039	8	848	9 8	731
Sandusky	G 4	1, 494		4,760	. cs	280	15.	746
:								
DetroitMichigan		389	6	1,544	294	49,081	89	7,300
Milwankie Wisconsin								
Chicago	જ	652	જ	590			જ	428
Total	2,661	1, 434, 779	3, 595	464, 822	1,724	397, 587	2,033	174, 619

				TONNAGE CLEARED	CLEARED			
Ti othe ch		AMERICAN,	ICAN,			FOREIGN.	IGN.	
Justicia.	Ste	Steam.	SQ	Sail.	Stc	Steam.	σã	Sail.
	No.	Tens.	No.	Tons.	No.	Tons.	No.	Tons.
Vermont. Vermont Champlain. New York Oswegatchie. do Cape Vincent. do Sackett's Harbor. do Genesce do Genesce do Rigara. do Buffalo. Pennsylvania Cuyahoga. Ohio Sandusky do Miami do Detroit. Michigan Mackinac. do Mackinac. do Chicago Illinois	147 411 303 696 197 346 200 212 71 10	58, 024 90, 436 218, 069 427, 457 161, 375 267, 594 160, 000 75, 072 18, 152 2, 070 2, 086	318 74 280 280 141 121 131 133 143 101 17	17, 020 8, 135 45, 205 1, 385 327, 172 1, 620 13, 774 13, 774 13, 205 1, 690 1, 396 1, 668	1119 37 346 53 6 48 91 400 296 6 6 3 3	9, 321 3, 899 89, 356 12, 473 1, 060 7, 259 27, 900 145, 773 48, 672 926 336	111 106 44 44 1,078 62 55 297 6 6 88 88 88 88	7,602 20,759 6,657 1,934 83,768 3,714 1,344 22,568 22,568 1,300 1,300
Total	2,612	1, 482, 548	2, 790	438, 862	1,730	398, 702	1,949	166, 010

No. 7.

Property coming from Canada by way of Buffalo, Black Rock, Oswego, and Whitehall, during the year 1851.

Articles.	Buffalo.	Bl'ck Rock.	Oswego.	Whitehall.	Total.
THE FOREST.	11 100			1,941	12,227
Fur and peltrypounds.	11,186			1,041	1 England
Product of wood— Boards and scantling feet. Shingles M. Timber cubic feet. Staves pounds Wood cords. Ashes, pot and pearl barrels.	10,200,427 164,000 2,989 356,151	12,393,957 370 44,492	74,209,425 6,645 232,855		120,893,897 172,944 1,467,707 356,151 8 3,352
AGRICULTURE.					
Product of animals— Pork. barrels Bacon pounds Butter. do Lard. do Wool. do Hides do	19 6,000 12,788 700 95,020 16,317		4,898 141,209	154,461 4,835	19 6,000 17,686 155,161 241,064 16,317
Vegetable food— Flour. barrels. Wheat. bushels. Rye do Corn do Barley do Oats do Bran and ship stuffs pounds Peas and beans bushels Potatoes do	104,143 12,296	950 2,475 5,729	343,932 684,280 70,176 19,844 111,291 64,896 56	7,589 7,989 25,606 243,084 3,509 21,132	371,773 837,715 78,165 104,143 51,179 366,671 3,509 86,028 146
All other agricultural products— Cotton—————pounds Clover and grass seed———do—— Hops————do——	21,416		68,679	1,101 25,862	6,000 91,196 25,862
Domestic spiritsgallons. Linseed oildo Leatherpounds. Furnituredo. Machines and parts thereof.do Irondo.	3,549 2,200	2,800	2,860	1,120	10,470 1,120 6,742 5,000 13,900 184,638
OTHER ARTICLES.	•				
Stone, lime, and claypounds Eggsdo Fishdo Sundriesdo		34,132	455,778	172,363 132,091 679,501	11,669 172,363 134,091 1,252,728

No. 8.—Statement showing the quantity of some of the principal articles exported and imported coastwise, in the several collection districts on the lake frontier, during the year ending December 31, 1851.*

			THE FOREST.	EST.				PRODUCTS OF	PRODUCTS OF AGRICULTURE.	
Districts.	Furs.	rs.	Lun	Lumber.	Ashea	B81	Flo	Flour.	Wheat.	et.
	Exports.	Imports.	Exports.	Imports. Exports. Imports.	Exports.	Imports.	Exports.	Imports.	Exports.	Imports.
Wommond and	Pounds.	Pounds.	M feet.	M feet.	Casks.	Casks.	Barrels.	Barrels.	Bushels.	Bushels.
Champlain, New York. Oswegatchie, New York. Gene Vincent New Vorl.		2,000	199	116, 093 196	615	3, 930	129	870 375, 320	7, 222	377, 725
Cape vincent, new roth Sackett's Harbor, New York. Oswego, New York.	1		2,896 148	145 21, 295	366	3, 895	169 2,727	1,630 130,054	5, 402 2, 500	37, 890 3, 561, 697
Niagara, New York Buffalo, New York Purgan Jelo Domenton	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	442, 960	000	57,622	4	14, 773	13,925	1, 436, 559	391, 550	4, 115, 766
Cuyahoga, Ohio	80,000 128,400		1,281 2,046	12, 263 6, 809	1,830 3,214		2, 043 656, 040 194, 682	800'6	2, 141, 913 2, 621, 224	
Mtami, Ohio Detroit, Michigan.	105, 000 42, 000		2, 134 330, 717	11, 837 1, 190	4,847 6,207	844	242, 677 460, 325	1,827	1, 639, 744 897, 719	
Milwaukie, Wisconsin. Chicago, Illinois.	571,715		1,833	40, 401 125, 056	5,672		142, 015 71, 723	6, 630	687, 634 436, 808	26,084
Total imports and exports	927, 115	444, 960	392, 953	392, 007	23, 278	23, 445	1, 786, 461	1, 962, 729	8, 831, 716	8, 119, 162

^{*} If every article passing over the lakes was properly accounted for and reported at the custom-house, the footing of the column of exports would, in each instance, balance that of the column of imports.

				PRODUCTS	PRODUCTS OF AGRICULTURE.	TURE,				
Districts.	Ω ₀	Corn.	o O	Oats.	Barley.	ю.	Pot	Potatoes.	• Fruit.	it.
	Exports.	Imports.	Exports.	Imports.	Exports.	Imports.	Exports.	Imports.	Exports. Imports.	Imports.
4	Bushels.	Bushels.	Bushels.	Bushels.	Bushels.	Bushels.	Bushels.	Bushels.	Pkgs.	Plegs.
Champlain, New York Oswegatchie, New York	1, 312	82, 458	26, 489	346, 751 5, 242	2, 107		734	241, 355 400		53 3, 487
Cape vincent, new lork. Sackett's Harbor, New York. Oswego, New York.	42, 581 7, 500	28, 684 1, 251, 306	34, 068	97, 213	62, 895	40 171, 347	026	4,874	6,616	1, 476 3, 327
Niagara, New York. Buffalo, New York. Presque Isle, Pennsylvania.	14, 389	6, 131, 316	54,041	1, 142, 552	18,700	146,573		12, 338	1,268	6, 500
Cuyahoga, Ohio Sandusky, Ohio Miami, Ohio Detroit, Michigan	906, 653 1, 282, 509 2, 775, 149 378, 070	4, 500	68, 464 239, 936 64, 441 48, 546		675	27, 505 27, 505 2, 120	411 17, 796 3, 518	11,000	5,689 1,054 678 5,979	8, 277 12, 399 6, 575
Mackinac, Michigan Milwaukie, Wisconsin Chicago, Illinois	72, 342		193, 405 767, 089		137, 163	12, 331	25,000 2,000			17, 517 9, 836
Total imports and exports	8, 701, 822	7, 498, 264	1, 496, 479	1, 591, 758	241,899	360, 172	50, 429	270, 207	21,284	69, 447

						PROL	PRODUCTS OF AGRICULTURE.	AGRICULTI	JRE.					
Districts.	Co	Cotton.	Hemp.	np.	Tobacco.	.000	Broom-corn.	-cora.	Peas and beans.	1 beans.	Pork.	Ā.	Beef.	ef.
,	Exports.	Exports. Imports.		Exports. Imports.		Exports. Imports. Exports. Imports. Exports. Imports.	Exports.	Imports.	Exports.		Exports. Imports.	Imports.	Exports.	Imports.
Worman to a	Bales.	Balcs.	Bales.	Bales.	Pkgs.	Phgs.	Bules.	Bales.	Bushels.	Bushels.	Barrels.	Barrels.	Barrels.	Barrels.
Champlain, N. Y. Oswegatchie, N. Y.		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	72				1,176	150	32, 270	25	150		4,450 6,034
Sackett's Harbor, N. Y Oswego, N. Y	57	147	1 1 1 1 1 1 1 1 1 1 1 1	998		282		300	7,173	3,202	145	176		15,940
Niagara, N. Y Buffalo, N. Y Presente Isle Penn		310	69	2,480		2,856		65 65 5,478		2,635	50	36, 833		76,285
Cuyahoga, Ohio. Sandusky, Ohio. Wismi, Ohio.	108	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	357	, 1	803 549	1 5 5 3 7 3 4 8 7 4 8 3 7 8 7 7 9 8	650	1,060	88		13,580 7,196		26,944 3,038 7,996	
Detroit, Mich	* :		3		0,100	19	132		979		1,704	620	508	
Milwaukie, Wis.		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1,389		482		4,215				5,000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4,043 52,865	
Total imports and exports.	451	457	2, 533	2,818	5,003	3, 199	5,210	8,079	8, 180	38, 138	87, 585	68, 616	94,754	102, 709

Exports. Imports. Pounds Pounds. 3,000 15,900 35,200 3,662,400 4,759,997		PRODUCTS OF AGRIOULTURE.	Agrioulture.			
Exports. Imports. Pounds Pounds. 3,000 15,900 35,200 3,662,400 4,759,997		Tallow.	Butter.	er.	Cheese.	ese.
Pounds Pounds. 3,000 16,800 35,200 3,662,400 4,759,997	aports. Exports.	ts. Imports.	Exports.	Imports.	Exports.	Imports.
3,000 15,900 35,200 3,662,400 4,759,997	ounds. Pounds	ls. Pounds.	Pounds.	Pounds.	Founds.	Pounds.
35, 200 3, 662, 400 4, 759, 997	16,800 15,900	135, 300	25, 900	620,000 318,800	40,200	984, 600 362, 700
	362, 400	7,200	161,500	402, 900	403,200	7,500
A total and a contract and	1 1	7,500 690,150	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	2,966,200	7 1 8 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3,877,123
2,167,300 267,337 5,433,000	35, 900 157, 127 565, 200	000 127 200	1, 559, 002 382, 340 311, 900	27, 900	2, 416, 695 $2, 404, 140$ $8, 100$ $50, 720$	383, 889 144, 900
46,000	1, 084, 377	377	110, 600			124,240
Total imports and exports	713, 597 2, 043, 894	894 966, 750	3, 532, 202	4, 335, 800	4, 323, 055	6, 662, 552

S. Doc. 112.

				PR(PRODUCTS OF AGRICULTURE.	AGRICULT	URE.			
Districts.	Eggs	si Si	Horses.	ses.	Cattle.	de.	Sheep.	ep.	Swine.	ช์
	Exports.	Imports.	Exports. Imports. Exports. Imports. Exports. Imports. Imports.	Imports.	Exports.	Imports.	Exports.	Imports.	Exports.	Imports.
	Barrels.	Barrels.	Barrels. Number. Number. Number. Number. Number.	Number.	Number.	Number.	Number.	Number.	Number.	Number.
Vermont, and Champlain, New York Oswegatchie, New York	70	i1, 173 65			1 1		1 1			• ! !
Cape Vincent, New York. Sackett's Harbor, New York. Oswego, New York.	592 702	ro	150	252		15		1 1 1		
Genesee, New York Niagara, New York Buffalo, New York		12, 731	1 1 1 1 5 4 1 6 7 2 7 9 2 7 9 2 7 9	2,909		18		50 19, 378		50 110, 916
Presque Isle, Pennsylvania Cuyahoga, Ohio.	110 5,686		630	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2,889		6,220		80,000	
Saudusky, Olito Miami, Ohio Detroit, Michigan	568		301	101	744	53	1,759 413	221 913	23, 547	550
Mackinac, Michigan Milwaukie, Wisconsin Chičago, Illinois					448					
Total imports and exports	10,625	23, 974	1, 166	3, 393	4, 337	9,614	8, 392	20, 562	178, 321	111, 186

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				PRODUCTS OF MINES.	OF MINES.			
Districts.	Coal.	al.	Te Te	Lead.	Iron.	n.	Railroad iron.	d iron.
9	Exports.	Imports.	Exports.	Imports.	Exports.	Imports.	Exports.	Imports.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Vermont, and Champlain, New York Oswegatchie, New York	œ	371	1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1,016	26, 081 200		
Cape Vincent, New York Sackett's Harbor, New York Oswego, New York Ganasea New York	80	1,280 799			732	183 550	43, 429	1,000
Niagara, New York Buffalo, New York Presque Isle, Pennsylvania	82,000	17,775		808	944	1,004		2, 195 1, 816
Cuyanoga, Onio Sandusky, Ohio Miami, Ohio Detroit, Michigan	960	2,745 2,599 30,106	1	1	343	1, 120	42	17, 486 9, 415 366
Mackinac, intengan Milwaukie, Wisconsin Chicago, Illinois		2, 177 30, 000	493 687	1	72	507 10, 286		929
Total imports and exports	164, 548	88, 866	1,180	803	11,698	42, 893	43, 471	40,217

4 4				OTHER ARTICLES	RTIOLES.			
Districts.	Oils.	ls.	Fish	h.	Glass.	.88.	Merchandise.	ndise.
	Exports.	Imports.	Exports.	Imports.	Exports.	Imports.	Exports.	Imports.
řh.	Barrels.	Barrels.	Barrels.	Barrels.	Packages.	Packages.	Tons.	Tous.
Vernout, and Champlain, New York Oswegatchie, New York		102	51	65 508		4,058	125, 000 4, 360	18, 366 1, 507
Cape vincent, New York Sackett's Harbor, New York Gwego, Wew York	525	2, 433	1,518	57 335		1,147	115 17,619	1,461
Sociesce, New York Suffalo, New York	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	26 6,023	1	10,600		1,064	225, 440	3
Presque Isle, Pennsylvania Cuyahoga, Ohio Sandusky, Ohio	1,263	09	1,455	4,646 22,294 7,538	1, 759 22, 930		3, 681 405	35,083 25,083 21,011
Miami, Ohio Detroit, Michigan	6,078 135	, , , , , , , , , , , , , , , , , , ,	19,486	10, 499 4, 119		3,249 5,011	201 1,511	23, 260 18, 000
Mackinac, Michigan Miwaukie, Wisconsin Chicago, Illinois	78		3, 584	1,208			1,535 2,491	30, 594 37, 368
Total imports and exports	8,082	8,648	67,913	67, 126	24,689	17, 107	383, 769	179, 991

PART IV.

RAILROADS AND CANALS OF THE UNITED STATES.

As a report upon the inland commerce of the United States, or of any important portion of it, would be imperfect without reference to the various works constituting its channels, to which in some degree it owes its direction, the following notice of the railroads and canals

of the United States has been prepared.

The peculiar characteristics of this country, in regard to its geographical and topographical features and to the industrial condition and relations of the people of the different regions, render works of internal improvement necessary to the development of the resources and progress of every portion. With us such works are chiefly commercial enterprises, their principal object being to cheapen and facilitate the movement of persons and property. Generally, the means for their construction have been furnished by incorporated associations, and consequently the construction and management of them have been intrusted to such companies.

The opposition by many of the prominent and influential statesmen of the United States to the interference of the federal government in aid of such works, on the alleged ground of absence of constitutional power, has hitherto prevented the rendering of such assistance except in the case of the Cumberland road, and one or two other instances. Many intelligent men doubt if this opposition has not been advantageous. Wherever the respective States have aided such works, they have fortunately, in most instances, committed the control of them to private hands and private interests. Considerations apart from commercial objects have had but little influence in their construction or management. These works, therefore, constitute the best expression of the commercial wants of our people, and their immense cost the best illustration of the magnitude and value of this commerce.

The early settlements in this country having been made upon the seaboard, manufacturing and commercial communities first grew up at favorable points near the coast. The extension of the settlements into the interior necessarily involved the construction of outlets for them to markets upon the seaboard. So long as this population was confined to the Atlantic slope, public highways were not of great magnitude nor importance. When, however, settlers had crossed the Alleghany mountains and peopled the regions beyond them, the public mind was turned to the subject of constructing channels of commercial

intercommunication adequate to their wants.

The natural outlets of the great interior basin—the rivers Mississippi and St. Lawrence—are not in all respects adequate and convenient

outlets. The first person to present a definite project for an artificial work, on an extensive scale, was General Washington. That great and wise man foresaw the future importance of the country beyond the Alleghanies, and the magnitude of its prospective commerce, which he proposed to secure to his own colony. Before he reached the age of twenty-one years he had crossed the mountains, and the subject of a canal from the tide-waters of the Chesapeake to the waters of the Ohio received his careful attention. At subsequent periods he visited the Ohio valley and presented the results of his examination and observation to the House of Burgesses of Virginia, from which body he received a vote of thanks. The plan of a canal proposed by him was eagerly embraced, and has now so long remained a favorite object that its importance and ultimate consummation have become traditional

ideas with the people of Virginia.

The merits of a general plan for a commercial channel, by which to connect the East and West, suited to the wants of the two different sections of the country, were not involved in the question of route. Virginia, prior to the Revolution, was the richest, most populous, and most central of the colonies, and her tide-waters most nearly approached the navigable waters of the Ohio. It was taken for granted that the appropriate route for such a work lay through her territory; but at that time our people had neither the engineering skill nor the experience, nor were they sufficiently acquainted with the topography of the mountain ridge separating the great western valley from the Atlantic slope, to decide upon the question of route. As they became better acquainted with the country, it was ascertained that the best route for a canal connecting the navigable water-courses separated by the Alleghanics lay farther north; and it was reserved for New York first to realize the idea of General Washington, and thereby secure to itself the vast benefits the result of which he foresaw, and which, before the Revolution, he sought to secure to Virginia. For years after General Washington proposed his plan, our western settlements did not extend beyond the Ohio; and, in fact, all the country west of the Mississippi was claimed by a foreign power. The vast regions now filled with a numerous and thriving population, comprising the States of Ohio, Indiana, Illinois, Missouri, Iowa, and Wisconsin, were not only a wilderness, but the idea that they would ever be densely occupied by civilized man was regarded as chimerical. The principal settlements beyond the mountains were those most contiguous to Virginia, and what is now Kentucky was then a part of the "Old Dominion." The rapid settlement of Ohio and the adjacent States, after the war of 1812, changed the aspect of affairs in the West. The preponderating interest and influence extended northward of the first settlements, and the State of New York was the first to open an improved line of commercial communication between the Atlantic and the Great West. canal was discovered to be practicable through her territory, and the genius and public spirit of her statesmen stimulated her legislators to make use of this advantage, securing to her the chief interior trade.

It was not until after the completion of the Erie canal, in 1825, that the adaptability of railroads to the uses of commerce was established. These works are destined to compete with canals, and

even natural water-courses, as media of commercial intercourse. Their construction and profitable operation may be regarded as practicable upon all the routes of commerce—and all the Atlantic cities have either completed, or have in progress, lines of railroads having the same general objects and direction with the great New York work, by which they propose to secure similar results. These works are regarded as of greater benefit to the interior portions of the country than to the cities which are their termini upon our navigable water-courses. Their construction is now the absorbing topic. They will one day become the ordinary highways of transit for property as well as persons. A satisfactory view of the commerce of the country, therefore, necessarily involves a description of them, as its future channels.

It is also important that the uses, objects, and influences of public works in developing the resources, in stimulating and in giving new directions to the commerce of the country, should be thoroughly understood, both as tending to correct legislation in commercial affairs and as securing to these enterprises that degree of public confidence to which they are entitled. As heretofore stated, at least \$80,000,000 are now annually required to carry forward works in progress, and to meet the demand of new ones as they may arise. Of this sum, \$50,000,000 are borrowed either of the capitalists of this country, or of Europe, at rates of interest averaging from 6 to 10 per cent. per annum for a series of years. A large sum is in this manner added to the cost of these works, which might be saved were the public mind properly enlightened as to their productiveness, as investments of capital, and as to their influence in increasing national wealth and prosperity.

This review of railroads and canals will commence with a notice of those of New York—the pioneer State in successful achievements on a large scale. In noticing the works of other States, a geographical rather than chronological order will be observed. Only the leading lines—such as are in some measure identified with the commerce of the country—will be particularly described; and where works are still

in progress, the results predicated of them will be stated.

Following the notice is a brief consideration of railroads in their economical aspects and results—a matter esteemed of equal if not greater importance than a detailed description of the works themselves.

NEW YORK.

Population in 1830, 1,918,608; in 1840, 2,428,921; in 1850, 3,097,394. Area in square miles, 46,000; inhabitants to square mile, 67.33.

Eric canal.—Although it was known at an early period that a favorable route for a canal from tide-water to the lakes existed in the valley of the Mohawk river, it was not until 1816 that the project received particular attention from the authorities of the State of New York. In that year, the governor of the State, the Hon. D. D. Tompkins, in his annual message to the legislature, recommended the construction of a canal from the Hudson river, at Albany, to Lake Eric. This recommenda-

tion was favorably received, and after a protracted discussion, as to the plan which should be pursued, the work was formally commenced on the 4th of July, 1817; and on the 26th day of October, 1825, the

canal was completed.

Previous to the construction of the canal, the cost of transportation from Lake Erie to tide-water was such as nearly to prevent all movement of merchandise. A report of the committee of the legislature, to whom was referred the whole subject of the proposed work, consisting of the most intelligent members of that body, dated March 17, 1817, states that at that time the cost of transportation from Buffalo to Montreal was \$30 per ton, and the returning transportation from \$60 to \$75. The expense of transportation from Buffalo to New York was stated at \$100 per ton, and the ordinary length of passage twenty days; so that, upon the very route through which the heaviest and cheapest products of the West are now sent to market, the cost of transportation equalled nearly three times the market value of wheat in New York; sx times the value of corn; twelve times the value of oats; and far exceeded the value of most kinds of cured provisions. These facts afford a striking illustration of the value of internal improvements to a country like the United States. It may be here stated, as an interesting fact, that prior to the construction of the Erie canal, the wheat of western New York was sent down the Susquehanna to Baltimore, as the cheapest and best route to market.

Although the rates of transportation over the Erie canal, at its opening, were nearly double the present charges—which range from \$3 to \$7 per ton, according to the character of the freight—it immediately became the convenient and favorite route for a large portion of the produce of the northwestern States, and secured to the city of New York the position which she now holds as the emporium of the Confederacy. Previous to the opening of the canal, the trade of the West was chiefly carried on through the cities of Baltimore and Philadelphia, particularly the latter, which was at that time the first city of the United States in population and wealth, and in the amount of its

internal commerce.

As soon as the lakes were reached, the line of navigable water was extended through them nearly one thousand miles farther into the interior. The western States immediately commenced the construction of similar works, for the purpose of opening a communication, from the more remote portions of their territories, with this great water-line. All these works took their direction and character from the Erie canal, which in this manner became the outlet for almost the greater part of the West.

It is difficult to estimate the influence which this canal has exerted upon the commerce, growth, and prosperity of the whole country, for it is impossible to imagine what would have been the state of things without it. But for this work, the West would have held out few inducements to the settler, who would have been without a market for his most important products, and consequently without the means of supplying many of his most essential wants. That portion of the country would have remained comparatively unsettled up to the present time; and, where now exist rich and populous communities, we should find an uncultivated wilder-

ness. The East would have been equally without the elements of growth. The canal has supplied it with cheap food, and has opened an outlet and created a market for the products of its manufactures and commerce. The increase of commerce, and the growth of the country, have been very accurately measured by the growth of the business of the canal. It has been one great bond of strength, infusing life and vigor into the whole. Commercially and politically, it has secured and maintained to the United States the characteristics of a homogeneous people.

It will be seen, by the following tabular statement, that the growth of the city of New York in population, wealth, and commerce, has nearly kept pace with the increase of the business of the Erie canal, and the progress of the western States. The tables show the intimate relation of this great work to the commerce and prosperity of the country, and that to maintain a large foreign commerce it is necessary

that a city should have a large domestic trade.

They also indicate the annual tonnage of the canal; the value of produce and merchandise passing to and from tide-water; the tonnage and value of produce received at Buffalo and Oswego from the western States; the number of annual lockages on the canal; the foreign arrivals at, and tonnage of, the ports of Boston, New York, Philadelphia, and Baltimore; the value of exports and imports of each of these cities, their increase in wealth and population, and also the increase of the population of the western States since 1820.

Comparative statement showing the tolls, trade, and tonnage of the New York State canals, and the progress, in commerce, navigation, population, and valuation, of the four principal Atlantic cities, and the foreign commerce of the United States, from 1820 to 1851, inclusive.

		New York Sta	ate canals—tol	ls, trade, an	d tomage.	
Years.	Tolls, amount collected.	Total move- ment, east and west.	Total receiv'd at tide-water.	Total going from tide- water.	Proportion destined to other States.	Proportion received from other States.
	Dollars.		·	Tons.	•	
1820	5, 244					24
1821	24, 388					
1822	64,072					
1823	153, 099					
1824	340,761		157, 446	32, 385		
1825	566, 279		185, 405	33, 438		
1826	765, 104		269, 795	34,086		
1827	859, 260					
1828	838, 447			54, 622		
1829	813, 137			48, 993		
1830	1,056,922			66, 626		
1831	1, 223, 801			83,893		
1832	1, 229, 483			110 400		
1833	1, 463, 715		FF0 F00	119, 463		· · · · · · · · · · · · · · · · · · ·
1834	1,340,106		553, 596	114,608	EE 200	
1835	1,548,108	1 910 007	753, 193	128, 910	55,772	104,701
1837	1,614,342	1,310,807 1,171,296	696, 347 611, 741	133,796 122,130	61,167 54,766	110, 108
1838	1, 292, 629 1, 590, 911	1, 333, 011	640, 481	142, 802	77,090	125,779
1839	1, 616, 382	1, 435, 713	602, 128	142,002	85, 193	158,000
1840	1,775,747	1, 417, 046	669, 012	129,580	63, 871	214,456
1841	2, 034, 882	1, 521, 661	774, 334	162,715	81,742	275,076
1842	1,749,197	1, 236, 921	666, 626	122, 394	54,011	272, 386
1843	2, 081, 590	1, 513, 439	836, 861	143, 595	72,500	286, 891
1844	2, 445, 761	1,816,586	1, 019, 094	176, 737	99,552	340, 151
1845	2, 645, 931	1, 977, 565	1, 204, 943	195,000	104,018	338, 525
1846	2,755,593	2, 268, 662	1, 362, 319	213, 795	138, 235	540, 219
1847	3, 634, 942	2, 869, 810	1,744,283	288, 267	147,654	854,693
1848	3, 252, 184	2,796,230	1, 447, 905	329, 557	187,453	701,531
1849	3, 268, 226	2,894,732	1,579,946	315, 550	183,036	834, 140
1850	3, 273, 899	3, 076, 617	2, 033, 668	418, 370	158, 501	897,891
1851	3, 329, 787	3, 582, 733	1,977,151	467, 961	246,812	1,047,649

	Ne	w York Stat	te canals—tolls, trade, and tonnage.					
Years.	Value of the total movement.	Lockages at Alexan- der's lock.	Value from oth- er States, via Buffalo and Oswego.	Total value received at tidewater.	Value of merchandise destined for other States, via Buffalo and Oswego.			
	Dollars.	Number.		Dollars.				
1000								
1820								
		'						
1822								
1823								
1824		6, 166						
1825		10,985						
1826		15, 156						
1827		13,004						
1828		14,579						
1829		12,619						
1830		14,674						
1831		16, 284						
1832		18,601						
1833		20,649						
1834		22, 911		13, 405, 022				
1835		25,798		20, 525, 446				
1836	67, 634, 643	25, 516	5, 493, 816	26, 932, 470	9, 723, 250			
1837	55, 809, 228	21,055	4, 813, 626	21, 822, 354	6, 322, 750			
1838	65, 746, 559	25, 962	6, 369, 645	23, 038, 510	8,657,250			
1839	73, 399, 764	24, 234	7, 258, 968	20, 163, 199	10, 259, 100			
1840	66, 303, 893	26, 987	7, 877, 358	23, 213, 573	7,057,600			
1841		30, 320	11, 889, 273	27, 225, 322	11, 174, 700			
1842	60, 016, 608	22, 869	9, 215, 808	22,751,013	7, 218, 900			
1843	76, 276, 909	23, 184	11, 937, 943	28, 453, 408	13, 067, 250			
1844		28, 219	15, 875, 558	34, 183, 167	14, 845, 250			
1845	100, 553, 245	30, 452	14, 162, 239	45, 452, 321	17, 366, 300			
1846	115, 612, 109	33, 431	20, 471, 939	51, 105, 256				
1847	151, 563, 428	43, 957	32, 666, 324	73, 092, 414	27, 298, 800			
1848		34, 911	23, 245, 353		30, 553, 920			
1849		36, 918	26, 713, 796		31, 793, 400			
		38, 444			47, 188, 600			
1850					62, 963, 640			
1851	159, 981, 801	40, 396	20, 320, 310	00, 021, 000	02, 300, 040			
		1	1	1				

STATEMENT—Continued.

Commerce, navigation, valuation, and population of New York, Boston, Philadelphia, and Baltimore, with the customs' revenue at each port.

Years.

Value of imports at the ports of-

	Boston.	New York.	Philadelphia.	Baltimore.	
1820		\$26, 020, 012 33, 912, 453	\$8, 158, 922 11, 874, 170		
1823 1824 1825		30, 601, 455 37, 783, 147 50, 024, 973 34, 728, 664	13, 696, 770 11, 865, 531 15, 041, 797 13, 551, 779		
1826		41, 441, 832 39, 117, 016 34, 972, 493	11, 212, 935 12, 884, 408 10, 100, 152		
1830		38, 656, 064 57, 291, 727 42, 542, 012	9, 525, 893 11, 673, 755 10, 048, 195		
1833		56, 527, 976 72, 724, 210 87, 734, 844 117, 700, 917	11, 153, 757 10, 479, 268 12, 389, 937 15, 068, 233	\$4,647,167 5,647,153 7,131,503	
1837	17, 949, 146 12, 355, 131 17, 987, 754	78, 543, 706 68, 159, 360 99, 483, 414	11, 680, 011 9, 323, 840 15, 037, 420	7, 857, 033 5, 701, 869 6, 995, 285	
1840	14, 826, 967 18, 912, 078 15, 796, 600 15, 788, 484	60, 064, 942 75, 358, 283 57, 446, 081 31, 112, 227	8, 464, 882 10, 342, 206 7, 381, 770 2, 755, 958	4, 835, 617 6, 101, 313 4, 416, 138 2, 479, 132	
1844	18, 884, 448 21, 230, 381 22, 615, 117	64, 528, 188 69, 897, 405 73, 531, 611	7, 217, 238 8, 156, 446 7, 989, 393	3, 917, 730 3, 741, 286 4, 042, 915	
1847	23, 279, 148 27, 183, 777 23, 275, 953 28, 656, 163	83, 075, 296 92, 947, 176 91, 374, 584 116, 667, 558	9, 586, 126 12, 147, 000 10, 644, 803 12, 065, 834	* 4, 432, 314 5, 343, 643 4, 976, 731 6, 124, 201	
1851	30, 508, 139	144, 454, 016	14, 168, 618	6, 648, 774	

STATEMENT—Continued.

Commerce, navigation, valuation, and population of New York, Boston, Philadelphia, and Baltimore, with the customs' revenue at each port.

Years.

Value of exports from the ports of-

	Boston.	New York.	Philadelphia.	Baltimore.	
1820		\$11,769,511	\$ 5,743,549		
1821		12, 124, 645	7, 391, 767		
1822		15, 405, 694	9,047,802		
1823		21, 089, 696	9, 617, 192		
824		22, 309, 362	9, 364, 893		
825		34, 032, 279	11, 269, 981		
826		19, 437, 229	8, 331, 722		
827		24, 614, 035	7, 575, 833		
828		22, 135, 487	6,051,480		
829		17, 609, 600	4, 089, 935		
830		17, 666, 624	4, 291, 793		
831		26, 142, 719	5, 513, 713		
832		22, 792, 599	3, 516, 066		
833		24, 703, 903	4,078,951		
834	\$8,984,611	23, 842, 736	3, 989, 746	\$4, 165, 995	
835	9, 413, 964	29, 451, 192	4, 176, 290	3, 923, 859	
836	8,716,330	27, 668, 159	3,677,607	3, 393, 444	
837	8, 016, 859	25, 459, 627	3, 841, 599	3, 789, 917	
838	7, 400, 999	21,654,765	3, 477, 151	4, 524, 575	
839	7,694,664	31, 946, 474	5, 299, 415	4, 576, 561	
840	8, 232, 386	32, 408, 689	6, 820, 145	5, 768, 768	
841	9, 441, 186	30, 792, 780	5, 152, 501	4, 945, 346	
842	7,830,794	25, 467, 316	3,753,894	4,901,238	
843	5, 146, 062	15, 972, 084	2, 354, 948	3, 008, 894	
844	7, 501, 469	29, 722, 803	3, 535, 256	5, 126, 476	
1845	8, 923, 838	33, 554, 776	3, 574, 363	5, 216, 989	
1846	8, 958, 048	33, 646, 006	4,751,005	6, 869, 055	
1847	9, 686, 851	46, 586, 635	8, 541, 167	9, 750, 457	
1848	12, 204, 462	49,742,238	5, 732, 333	7, 129, 461	
1849	8,692,008	42, 788, 237	5, 343, 421	7, 999, 857	
850	9, 141, 652	47, 580, 357	4,501,606	6,944,615	
851	10, 498, 180	79, 857, 315	5, 356, 036	5, 635, 786	
	_ ,,	, ,	2, 300, 000	0,000,100	
		`		į.	

	Commerce, nav Boston, Phila at each port.	delphia, and Balt	n, and populatio	on of New York, customs' revenue		
Years.	Duties collected at the ports of—					
	Boston.	New York.	Philadelphia.	Baltimore.		
1820		\$5, 487, 974 7, 243, 542 9, 941, 702 9, 022, 435				
1824		11, 178, 139 15, 752, 100 11, 525, 862 13, 217, 695 13, 745, 147		•••••		
1829 1830 1831 1832 1833		13, 052, 676 15, 012, 553 20, 096, 136 15, 070, 124 13, 039, 181				
1834 1835 1836 1837 1838	\$2, 612, 486 2, 236, 041 1, 328, 863 2, 239, 554	10, 183, 152 11, 597, 466 13, 424, 717 6, 679, 756 8, 941, 208	\$2, 159, 111 2, 637, 796 1, 162, 610 1, 882, 613	\$666, 937 1, 127, 989 704, 247 1, 111, 741		
1839 1840 1841 1842 1842	2, 162, 055 1, 820, 173 2, 307, 848 2, 789, 798 1, 311, 225	14, 475, 995 7, 167, 968 8, 418, 588 11, 273, 499 4, 072, 296	2, 326, 384 1, 553, 373 1, 367, 259 1, 659, 125 559, 649	1, 166, 548 700, 315 616, 025 610, 880 228, 367		
1844 1845 1846 1847 1848	4, 411, 372 4, 676, 157 4, 844, 129 4, 098, 226 5, 033, 772	16, 792, 679 17, 255, 308 16, 975, 972 15, 524, 014 20, 128, 726	2, 255, 860 2, 361, 325 2, 136, 754 1, 978, 430 2, 779, 931	603, 574 696, 724 674, 548 600, 497 771, 708		
1849	4, 380, 346 6, 177, 970 6, 250, 588	18, 377, 814 24, 952, 977 28, 772, 558	2, 329, 553 3, 122, 660 3, 715, 126	649, 402 1, 004, 961 1, 063, 530		

		e, navigation alphia, and H						
	Foreign tonnage entered at—				Entrances.			
Years.	Boston.	New York.	Philadelphia.	Baltimore.	Boston.	New York.	Philadelphia.	Baltimore.
'ĝ'	Tons.	Tons.	Tons.	Tons.	No.	No.	No.	No.
320							479	
321	100	171,963			853	912	441	
322		226, 790					494	
323		226, 789					482	
324		252, 769					501	
325							484	
326		274, 997			1		482	
327		292, 872					469	
328		275, 677					450	
29		281,512					374	
330							415	
31		337, 009					396	
32		401,718					428	
33	100.005	430, 918	00.004	000	*******		474	
34	183, 085	443, 697	83, 804			1,950	441	323
36	194, 420° 224, 684	465, 665 534, 538	78, 993 84, 484	63, 423 70, 176			416 407	326 359
37	242, 277	579, 194	91,715	96, 892	1, 381 1, 544	2,205 $2,222$	438	441
38	198, 898	422, 497	83, 123	77, 106	1, 235	1,625	428	398
39	230, 556	563, 617	111, 393	78,761	1, 440	2, 138	531	428
40	245, 383	545, 931	87,702	82, 140	1,507	1, 955	444	410
41	291, 323	547, 694	99, 076	89,748	1,730	2,098	498	44
42	276, 366	570, 015	94, 554	86, 904	1,719	1,987	465	408
43	144, 506	312, 214	47, 944	51, 598	943	1, 151	255	258
44	288, 988	576, 480	89, 529	82, 813	1,897	2, 123	447	409
45	308, 952	597, 218	91, 313	80,020	2, 166	2,008	420	384
46	318, 836	655, 877	88,048	89,906	2, 172	2, 132	398	430
47	325, 426	853, 668	139,774	123, 065	2, 120	2,738	621	511
48	432, 674	932, 493	119,787	102,530	2,923	2,870	524	479
49	451, 176	1, 117, 800	142, 623	110, 068	2,940	3,218	606	484
50	478, 859	1, 145, 331	132, 370	99, 588	2,782	3, 163	537	438
51	512, 217	1, 448, 768	159,636	113, 027	2,917	3,647	581	467

STATEMENT—Continued.

Commerce, navigation, valuation, and population of New York, Boston, Philadelphia, and Baltimore, with the customs' revenue of each port.

	customs' revenue of each port.					
Years.	Population of—					
	Boston.	New York.	Philadelphia.	Baltimore.		
	Number.	Number.	Number.	Number.		
1820 1821	43,298	123, 706	137, 097	62,738		
1822 1823						
1824 1825 1826	58, 277					
1827 1828 1829						
1830 1831	61, 392	203, 007	188, 961			
1832						
1835						
1838 1839				102, 313		
1840						
1843 1844 1845						
1846						
1849 1850	138,788			169, 012		
1851						

16, 337, 500

16, 337, 500

16, 337, 500 17, 282, 650

17, 521, 200

17,847,465

18, 200, 000

18,800,000

19, 175, 000

44, 400, 000

44, 400, 000

44, 400, 000

59, 367, 534

57, 343, 084

56, 585, 298

58,000,000

63, 522, 490

58, 890, 773

59, 377, 397

61,754,176

77, 302, 925

77, 612, 380

78, 831, 965

80, 296, 960

82, 105, 022

S. Doc. 112.

STATEMENT—Continued.

Commerce, navigation, valuation, and population of New York, Boston, Philadelphia, and Baltimore, with the customs' revenue at each port.

Years.

1825.....

1828.....

1829-----

1830....

1831....

1832.....

1833....

1834....

1835,....

1836.....

1837....

1838.....

1839-----

1840....

1841----

1842....

1843----

1844----

1845....

1846....

1847....

1848....

1849....

1850....

1851....

Valuation of real and personal estate in-New York. Philadelphia. Baltimore. Boston. \$38, 289, 200 \$16,337 500 \$83,075,676 16, 337, 500 16, 337, 500 54, 442, 600 107, 447, 781 16, 337, 50

112, 211, 926

114, 019, 533

111,803,066

125, 288, 518

139, 280, 214

146, 302, 618

166, 495, 187

186, 548, 511

218, 723, 703

309, 501, 920

263, 747, 350

264, 152, 941

266, 882, 430

252, 235, 515

251, 194, 920

237, 806, 906

229, 229, 078

235, 960, 047

239, 938, 318

244, 952, 405

247, 152, 306 254, 192, 027

256, 217, 093

286, 085, 416

320, 108, 358

\$118, 633, 523

120, 658, 327

125, 679, 699

139, 604, 254

140, 391, 780

59,568,000

60,698,200

67, 514, 400

70, 477, 200 74, 805, 800 79, 302, 600 88, 245, 000

89, 583, 800 90, 231, 600

91, 826, 400 94, 584, 600

94, 584, 600 98, 006, 600 106, 723, 700 110, 056, 000 118, 450, 300 135, 948, 700 148, 839, 600 162, 360, 400 167, 728, 000 174, 180, 200

180,000,500

187, 947, 000

		•						
	Foreign commerce of the United States.							
Years.	Specie e	excluded.	Specie included.					
I Cal S.	Imports. Exports.		Imports.	Exports.				
	Dollars.							
1820			74, 450, 000	69, 691, 669				
1821	54, 520, 834	54, 496, 323	62, 585, 724	64, 974, 382				
1822	79, 871, 695	61, 350, 101	83, 241, 541	72, 160, 28 <u>1</u> ,				
1823	72, 481, 371	68, 326, 043	77,579,267	74 , 699, 030				
1824	81, 169, 172	68, 972, 105	80, 549, 007	75, 986, 657				
1825	90, 289, 310	90, 738, 333	96, 340, 075	99, 535, 388				
1826:	78, 093, 511	72, 830, 789	84, 974, 477	77, 595, 322				
1827	71, 332, 933	74, 309, 957	79, 484, 063	82, 324, 827				
1828	81, 019, 543	64,021,210	88, 509, 824	72, 264, 686				
1829	67, 088, 915 62, 720, 956	67, 434, 651	74, 492, 527 70, 876, 920	72, 358, 671 73, 849, 508				
1830 1831	95, 885, 179	71,668,735		81, 310, 583				
1832	95, 121, 762	72, 295, 602 81, 520, 594	103, 191, 124 101, 029, 266	87, 176, 934				
1833	101, 047, 943	87, 528, 732	108, 118, 311	90, 140, 433				
1834	* 108, 609, 700	102, 260, 215	126, 521, 332	104, 336, 673				
1835	136, 764, 295	115, 215, 802	149, 895, 742	121, 693, 577				
1836	176, 579, 154	124, 338, 704	189, 980, 035	128, 663, 040				
1837	130, 472, 803	111, 443, 127	140, 989, 217	117, 419, 376				
1838	95, 970, 288	104, 978, 570	113, 717, 404	108, 486, 616				
1839	156, 496, 956	112, 251, 673	162, 092, 132	121, 628, 415				
1840	98, 258, 706	123, 668, 832	107, 141, 519	132, 085, 946				
1841	122, 957, 544	111, 817, 471	127, 146, 177	121, 851, 803				
1842	96, 075, 071	99, 877, 995	100, 162, 087	104, 691, 534				
1843	42, 433, 464	82, 825, 689	64, 753, 799	84, 346, 480				
844	102,604,606	105, 745, 832	108, 435, 035	111, 200, 046				
1845	113, 184, 322	106, 040, 111	117, 254, 564	114, 646, 606				
1846	117, 914, 065	109, 583, 248	121, 691, 797	**113, 488, 516				
1847	121, 424, 349	156, 741, 598	146, 545, 638	158, 648, 622				
1848	148, 638, 704	138, 190, 511	154, 998, 928	154, 932, 131				
1849	141, 206, 199	140, 351, 072	# 147, 857, 439	145, 755, 820				
1850	173, 509, 526	144, 375, 726	178, 136, 318	151, 898, 720				
1851	207,965,024	188, 967, 259	215, 725, 995	217, 517, 130				
				2.9				

The foregoing statements show, that while the cities of Baltimore and Philadelphia have made a rapid advance in population, their foreign commerce has remained very nearly stationary for a long series of years, proving most conclusively that a large foreign commerce can only be maintained by a city that is able to make herself the depot of

the domestic products of the country.

The Erie canal secured to the city of New York the trade of the interior, because it occupied the only route practicable for such a work. So long, therefore, as canals continued the most approved of known modes of transportation, the superior position of that city in reference to the internal trade of the country remained unquestioned. Such is now no longer the case. For travel, and for the transportation of certain kinds of merchandise, the superiority of railroads is admitted. It is also claimed that they can successfully compete with the canal in heavy freights. However this may be, the correctness of the assumption is admitted by the construction of railroads parallel to all the canals, for the purpose of competing for the business of the lat-The conviction is now almost universal, that commercial supremacy is to be secured and maintained by this new agency, which neutralizes, to a great extent, the advantages arising from the accidents of position; and that the commerce of the country is still a prize for the competition of all cities which may choose to enter the lists. Influenced by these views, all the great commercial towns have either completed, or are constructing, stupendous lines of railroad, with the confident expectation of securing to each a portion of the trade which, up to the present time, has been almost entirely monopolized by one.

It is proper to state, that the people of New York, in view of the competition and rivalry with which they are threatened, have determined to complete the enlargement of the Erie canal within the shortest practicable period. It is calculated that this enlargement can be completed within three years after it shall be undertaken. The enlarged canal will allow the use of boats of 224 tons burden, or three times the capacity of those now employed; and will, it is estimated, reduce the cost of transporting a barrel of flour from Buffalo to Albany to twentyfive cents, and other merchandise in like proportion. As the canal is abundantly supplied with water, the only limit to its capacity is the time required for passing boats through the locks. It is calculated that an average of 26,000 boats can be locked each way during the business season. Allowing each boat to be fully loaded, the total tonnage capacity of the enlarged canal would equal 11,648,000 tons. But as the proportion of down to up freights is as four to one, the average tonnage of the boats is estimated, in the reports of the State engineer for 1851, at 140 tons for each boat, which, for 52,000 boats, would give an annual movement of 7,230,000 tons as the total capacity of the canal, or 5,824,000 tons down, and 1,406,000 tons up freight. It is estimated that upon the enlarged canal the cost of transportation, embracing tolls, will be reduced to five mills per ton per mile upon ordinary merchandise, or to \$1 82 per ton for the entire distance from Albany to Buffalo.

Champlain canal.—This work, though originally constructed for the accommodation of the trade of the country bordering upon that lake,

bids fair to become an important avenue for the trade of the St. Law-This lake is now connected with the St. Lawrence river at Ogdensburg, above the rapids, by the Ogdensburg or Northern railroad; at Montreal, by the Champlain and St. Lawrence railroad; and will soon have a farther connexion at Lachine, by means of the Plattsburg and Montreal railroad, now in progress of construction. It is also connected with the St. Lawrence river, at the mouth of the Sorel, by means of the Chambly canal. Through this last channel the State of New York now receives a large and annually increasing amount of lumber. The Ogdensburg railroad was built expressly for the purpose of diverting a portion of the trade of the St. Lawrence at that point, and it is reasonable to suppose that all the roads named will, in time, become, in connexion with the lakes and canal, important outlets for western trade. They promise to open not only cheap, but expeditious routes, which, in a press of business, must be well patronized. It may be stated here, that the proposed ship-canal from Caughnawaga to Lake Champlain will open a practicable route for the largest class of vessels from the upper lakes to Whitehall, within seventy-five miles of tide-water.

As the route of the proposed canal is remarkably favorable, and as it can be fed from the St. Lawrence, and built at a moderate expense, it is believed that it must be constructed at no distant day.

Railroads of New York.

Railroads from Albany to Buffalo.—The first continuous line of railroad to connect the lakes and tide-water was that from Albany to Buffalo, following very nearly the route of the canal. As it was a private enterprise, and came into direct competition with the State works, the canal tolls were imposed upon the carriage of all freight, in addition to the cost of transportation. From this source the State has derived a large revenue. This tax has had a tendency to confine the business of the road to the less bulky and more valuable articles of freight, and to those of a perishable nature. The tax was removed on the first of December, 1851, by an act of the legislature; hence the road is now brought into free competition with the canal, and has, during the present season, carried flour from Buffalo to Albany for sixty cents per barrel, which is nearly fifty cents below the average price by canal for nearly twenty years subsequent to its opening. The quantity of freight is still restricted for the want of sufficient equipments and suitable accommodations for receiving and storing it, particularly at Albany. This fact operated as a serious drawback on the past winter's operations. The necessary facilities for business will soon be supplied, and there can be no doubt that the railroad will engage in a large carrying business in direct competition with the canal.

The above road will soon have practically a double track for its whole line. It already has such from Albany to Syracuse. From the latter place a new road is nearly completed to the Niagara river, composed of the straight line between Syracuse and Rochester, and the Rochester and Niagara Falls road. Its capacity for business will,

therefore, be unlimited. It connects with Lake Erie at Buffalo; and with Lake Ontario, through branches already in operation, at Sackett's Harbor, Cape Vincent, Oswego, and Lewiston; and, by lines in progress, at Great and Little Sodus bays, and at Rochester. By presenting numerous points of contact with western trade, it will escape all the inconveniences of too great a concentration of business at any one point, and will be enabled to offer great facilities for the cheap and easy

transport of freight. At Albany, it will connect with the Hudson river and Harlem roads, the former of which will be a double-track road. In connexion with these a double track will be formed from New York to Buffalo, and to various points upon Lake Ontario. At Buffalo this line is carried forward to the roads of Ohio by the Lake Shore road. The great western roads of Canada, now in progress, will form a connexion with Detroit. by way of the north shore of Lake Erie. From Detroit, the Michigan Central railroad is completed to Chicago; as is the Michigan Southern from Monroe; so that by January, 1854, New York will have two parallel lines of railroad to Chicago, each of which will be about one thousand miles long. From Chicago to the Mississippi river two important roads are in progress—the Galena and Chicago, and the Rock Island and Chicago, both of which will be completed in the course of 1853. The length of these lines will be about one hundred and eighty miles each.

Although the carriage of freight has been denied to the above line, except on payment of canal tolls, which amounts to a virtual prohibition of many articles, it has exerted an influence on the growth and prosperity of New York second only to that exerted by the Erie canal. In connexion with the great lakes and the western lines of improvement, it commanded, as soon as opened, the travel between the Atlantic States and the West and Southwest, and concentrated this travel upon that city, which in this manner became a necessary point in the route of every western or southwestern merchant, visiting the eastern States. The result was, the introduction to merchants of that city of a large class of country traders who would otherwise have continued to purchase, at points where they had been previously accustomed to trade. By passing through New York, the whole business population of the country established business relations more or less intimate in that city.

Eric railroad and its branches.—The Eric railroad, unlike the Central line, was planned and has been executed with special reference to the accommodation of the trade between New York and the West. It is the greatest work ever attempted in this country, and its construction is the greatest achievement of the kind yet realized. The road and all its structures are on the most comprehensive scale, and its facilities for business are fully equal to the magnitude and object of the work.

As the lake, on the one hand, and the Hudson river on the other, are approached, the road spreads out into a number of independent lines, forming at each terminus a sort of delta, to accommodate its immense business. Its outlets to tide-water are at Newburgh, Piermont, and Jersey City. At the two former places the company

have extensive grounds for the reception, storing, and forwarding of merchandise. With only one terminus, it would be impossible to accommodate its immense business without great confusion and delay,

and greatly increased cost.

On the western portion of the line, as soon as the Susquehanna valley is reached, important lines radiate from the main trunk, striking the lakes at all the points above named, and at Dunkirk in addition. The more important of these branches are the Syracuse and Binghampton, in connexion with the Syracuse and Oswego road; the Cayuga and Susquehanna, in connexion with the Lake Ontario, Auburn, and New York road; the Canandaigua and Corning, in connexion with the Canandaigua and Niagara Falls road; the Buffalo, Corning and New York, and the Buffalo and New York City railroads.

By means of all these feeders, the trade of the West will be intercepted at almost every important point on Lakes Erie and Ontario, and collected and forwarded to the great trunk line. Measures are also in progress to connect the Erie road with Erie, Pennsylvania, by a line running direct from Little Valley; and with Pittsburg by means of the Alleghany Valley railroad. It is hardly possible to conceive a road with more favorable direction and connexions, possessing capacities for a more extensive business, or one that is destined to bear a more im-

portant relation to the commerce of the whole country.

This road was opened for business only on the first of June, 1851. It has not, therefore, been in operation a sufficient length of time to supply any satisfactory statistics as to its probable influence upon western commerce. So far as its business and revenues are concerned, it has ex-

ceeded the most sanguine expectations.

In this connexion it may be stated that another very important outlet from the Erie road to tide-water, the Albany and Susquehanna railroad, is about to be commenced; the means to construct which have already been secured. The distance from Binghampton to Albany by this route will be 143 miles, against 224 to New York by the Erie road. From Binghampton, going east, commence the most difficult and expensive portions of the Erie road, involving high grades, short curvatures, and a much greater cost of operating the road per mile than the portion of the line west of that point. From Binghampton to Albany the route is very direct, and the grades favorable; and there can be no doubt that a considerable portion of western freights, thrown upon the Erie road, will find its way to tide-water over the Albany and Susquehanna road. Such, particularly, will be the case with freight which is designed for an eastern market. The large number of railroads converging upon the Susquehanna valley renders the Albany and Susquehanna road highly necessary, to relieve the lower portions of the former from the immense volume of business that will be collected upon the main trunk from all its tributaries.

The best commentary on the importance of the last named project is to be found in the action of the city of Albany, which very recently, in her corporate capacity, made a subscription to its stock to the amount of \$1,000,000, in adddition to large private subscriptions.

The following table will show the cost of the public works of New

York which have been constructed, or are in progress, with a view to their becoming avenues of the trade between the East and the West:

Erie and Champlain canals	26,000,000
Amount estimated for completion of Erie canal	9,000,000
Hudson river railroad	12,000,000
Harlem railroad	4,873,317
Utica and Schenectady railroad	4,143,918
Albany and Schenectady railroad	1,740,449
Syracuse and Utica railroad	2,570,891
Rochester and Syracuse railroad, (both lines)	6,464,362
Buffalo and Rochester railroad	2,228,976
Rochester and Niagara Falls railroad	1,600,000
Oswego and Syracuse railroad	588,768
Rome and Watertown railroad	1,500,000
Sackett's Harbor and Ellisburgh railroad	350,000
New York and Erie railroad	26,000,000
Canandaigua and Niagara Falls railroad	3,500,000
Buffalo, Corning and New York railroad	2,000,000
Buffalo and New York city railroad	1,500,000
Albany and Susquehanna railroad	4,350,000

110,410,681

Note.—The cost of the Sodus bay and Southern, and the Lake Ontario, Auburn and New York railroads, cannot, in the present stage of their affairs, be estimated with sufficient accuracy to give them a place in the above table. The cost of the Rochester and Syracuse road is estimated.

Railroads from the city of New York to Montreal, Canada.—The roads that make up the line from the city of New York to Montreal constitute a very important route of commerce and travel. The city of Montreal is the commercial emporium of the Canadas, and is a large and flourishing town. It lies very nearly north, and at a distance of about four hundred miles from New York. The roads which connect these cities lie in the gorge which divides in two the great mountain range extending, unbroken, except in New York, nearly from the Gulf of Mexico to the Gulf of St. Lawrence. This basin, or gorge, is occupied by the Hudson river, Lake Champlain, and the outlet of the latter to the St. Lawrence—the river Sorel. The route, as will be seen, is remarkably direct and favorable, as far as its physical characteristics are concerned; and as it connects the commercial metropolis of this continent with the great city of the St. Lawrence, and traverses a constant succession of large and flourishing towns, its importance will be readily appreciated.

This great route is made up, for a large portion of the distance, of two distinct lines. The first link, from New York to Albany, is composed of the Hudson river and Harlem roads; the second, from Albany to Rutland, Vermont, is made up of the Troy and Boston, and Western Vermont roads, and the Albany and Northern, and Rutland and Washington roads. From Rutland only one line is in operation, composed

of the Rutland and Burlington, Vermont and Canada, and Champlain and St. Lawrence roads. A road is also projected upon the west bank of Lake Champlain, which, when completed, will give two distinct lines for the whole distance between New York and Montreal. From Albany and Troy a railroad is in operation to Whitehall, the southern terminus of the lake. A road is also in operation from Montreal to Plattsburg, a distance of about sixty miles, and a comparatively short link only is wanting to constitute a new and independent route between New York and the St. Lawrence river; which there is every reason to believe will soon be supplied.

The above line of road, though recently opened, already commands an amount of travel fully equal to the importance of the connexions it sustains. Its through-freight business is not so large as its passenger travel, for the reason that a large portion of the line follows the immediate bank of an excellent navigable water-line, which, in the summer season, commands the heavy freight. In the winter it will become the channel of trade as well as of travel. As a pleasure route it presents uncommon attractions, which will secure to it a large business in the dull season for freight. The inland lines in Vermont and New York, however, traverse sections of country capable of supplying a very large local traffic both from their agricultural and mineral resources.

Among the most remarkable topographical features of this country is the severance of the great Alleghany range by the Hudson and Mohawk rivers, on the one hand, and Lake Champlain on the other. So deep are these indentations that the "long level" of seventy miles on the canal, occupying the summit of the ridge which divides the waters running into Lake Ontario from those flowing into the Hudson river, and which corresponds to the crest of the Alleghanies, is nearly one hundred feet below the surface of Lake Erie, and might, with some additional expense, have been fed from that source.

Lake Champlain is only eighty-seven feet above the ocean, and the summit between it and the Hudson is only one hundred and forty-seven feet above tide-water, and only twenty-three feet above the latter where the Champlain canal intersects it. In approaching New York from the interior, which is in the direction of the heavy trade, the above routes are the most favorable to economical transit, nothing being lost in overcoming adverse grades. It is these facts that constitute these routes keys to an important portion of the commerce of the country, and have rendered New York the commercial metropolis.

They are as well adapted to railroads as to canals; and as these depressions are bounded by high ranges of hills, the basin at the head of navigation on the Hudson must be regarded as one of the most important interior points in the railroad system of the country. Albany and Troy are the cities of the eastern States, lying upon tide-water, the most accessible from the interior, and are consequently the radiating points of some of our most important lines of improvement. The trunks of these to tide-water are the Hudson river and Harlem roads, which bear the same relation to the roads occupying the routes above described, as does the Hudson river to the Erie and Champlain canals. These facts

are a sufficient illustration of the important relations borne by the Hudson river and Harlem roads to the railroad system of the

country.

Railroads from Lake Champlain to the St. Lawrence.—The Champlain and St. Lawrence and the Plattsburg and Montreal railroads have already been briefly described. The third and most important line of road uniting the above waters is the Northern, connecting the lake with the river St. Lawrence, at Ogdensburg, a point above the falls on that river. This road, though in the State of New York, is properly a Boston work, as it was planned and the means furnished for its construction by that city. It is regarded as the key which opens to the roads terminating there the navigable waters of the lakes.

An important extension of this road is under contract from its southern angle, near Potsdam, to Sackett's Harbor, on Lake Ontario. The completion of this link will form a complete chain of railroads through the northern portions of New York, connecting Lake Champlain with

all the important ports on the eastern shore of Lake Ontario.

The three leading lines already described constitute, with their branches, the great routes of railway travel and commerce in the State of New York. In addition to the through business, they all traverse routes capable of supplying a lucrative local traffic; particularly the lines in western New York. The description of the trunk lines will convey a sufficiently accurate idea of the objects and characteristics of their respective branches without a special notice of the latter.

The most considerable line of road, not particularly alluded to, is the Long Island road. This was one of the earliest works of the kind in the State, and was constructed chiefly to accommodate the travel between the cities of New York and Boston. It is a somewhat remarkable fact that the pioneer work should be now entirely abandoned as a route of travel between the above cities. It is now only used to accommodate the local business upon its line, and consequently cannot be regarded as a work of much importance.

Delaware and Hudson canal.—This work was constructed for the purpose of opening an outlet for the northern Pennsylvania coal-field. It extends from Roundout to Honesdale, in Pennsylvania, a distance of 108 miles, and is connected at that place with the coal-fields by a railroad. It is a well-constructed work, of large capacity, and has proved a very useful one, not only on account of its coal trade, whence its

chief revenue, but from its local traffic.

Measures are also in progress for the construction of two considerable lines in the western portion of the State—one from the city of Rochester, tollowing the valley of the Genesee river, to Olean; and the other from Buffalo, probably to the same point. The objects inducing the construction of these roads, independent of local considerations, are the communications which they promise to open through the Alleghany valley road with Pittsburg and the coal-fields of northern Pennsylvania. Both routes traverse districts of great fertility, which cannot fail to afford a good business. The value of a railroad connexion between Buffalo and Rochester, the two most important cities

of western New York, and Pittsburg, which is at the head of naviga-

tion on the Ohio, will be readily appreciated.

An examination of the accompanying map will show how complete is the system of public works in New York, constructed with a view of commanding the trade of the interior of the country. As previously stated, a large portion of this trade naturally falls upon the great lakes, from the facilities they offer for reaching a market. The importance of this great water-line is still farther increased from the fact that most of the leading works of the West, designed to be routes of commerce, rely on it as a base. The commercial or business outlet for the lakes, as well as of the works connected with them, has been the Erie canal. That work comes in contact with the lakes at only two points, Buffalo and Oswego. The railroad, on the other hand, by the greater facility of its construction, opens as many outlets from the lakes to tide-water as there are harbors upon the former accessible to its commercial marine. New York is now profiting to the utmost by her advantages in reference to western trade. Nearly every good harbor, as well on Lake Erie as on Ontario, either is or soon will be connected with tide-water by railroads, actually constructed or in progress. Already such connexions are formed with the harbors of Cape Vincent, Sackett's Harbor, and Lewiston, on Lake Ontario; and roads are in progress from Great and Little Sodus bays and Charlotte, with similar objects. On Lake Erie, roads already extend from Tonawanda, Black Rock, Buffalo, Dunkirk, and Erie, Pennsylvania, to tide-water; so that, instead of only two outlets for the trade of the West, at Buffalo and Oswego, there are to be at least six times that number in New York alone. The facilities given to the commerce of the country by all these lines must prove not only of utility to this commerce, but to the trade and prosperity of the State and city of New York. The additional avenues to market, already opened and in progress, will, by a healthy competition, reduce the cost of transportation to the lowest possible point, and stimulate the movement of property and merchandise to an extraordinary degree. While every region of the United States is making extraordinary exertions to turn to themselves the interior trade of the country, New York is preparing for the most formidable competition with her rivals, and makes the most of the means within her reach to maintain her present preëminence.

RAILROADS OF NEW ENGLAND.

State of Massachusetts.—Population in 1830, 610,408; in 1840, 737, 699; in 1850, 994,514. Area in square miles, 7,800; inhabitants to square mile, 127.49.

State of Vermont.—Population in 1830, 280,652; in 1840, 291,948; in 1850, 314,120. Area in square miles, 10,212; inhabitants to square

mile, 30.76.

State of New Hampshire.—Population in 1830, 269,328; in 1840, 284,574; in 1850, 317,976. Area in square miles, 9,280; inhabitants to square mile, 34.26.

The Massachusetts System.

Under this head will be embraced a notice of the railroads of the States of Massachusetts, New Hampshire, and Vermont, as the lines of these States constitute one general system, and have been constructed by means furnished chiefly by the city of Boston.

Western railroad.—No sooner had the people of this country become acquainted with the part that railroads are capable of performing in commercial affairs, than the city of Boston conceived the bold idea of securing to itself the trade of the interior, from which it had previously been cut off by the impossibility of opening any suitable communication by water. It was this idea that gave birth to the Western railroad project, the most important which has yet been consummated in New England, and one of the most so in the United States. This work has probably exerted a wider influence, as the best illustration of what railroads accomplish for the advancement and welfare of a people, than any similar work in the country. From the largeness of the enterprise, the early period of our railroad history in which it was undertaken, and the difficulties in the way of its construction, it is properly referred to as a fitting monument of the sagacity, skill, and perseverance of the merchants of Boston. The completion of this road may be considered as establishing the railroad interest of this country upon a firm basis. It showed what could be accomplished, and the influence such works were calculated to exert upon the course of trade, and in promoting the prosperity of all classes. It imparted a new impulse to the internal-improvement feeling of the country, under which our railroad enterprises have moved forward, with increasing strength and vigor, to the present time.

The Western railroad, when its objects, direction, and the obstacles in the way of its construction are considered, is certainly a remarkable work. Through it the city of Boston proposed to draw to herself the trade and produce of the West, from the very harbor of New York, (for the Albany basin can only be regarded as a portion of her harbor;)and to open in the same direction an outlet for the product of her manufactures, and of her foreign commerce. It is well known that these efforts have been so far successful as to secure to Boston a large amount of western trade, which otherwise would have gone to New York, and to render the Western road her channel of communication between the former city and the West. It was only when menaced by this work, that New York successfully resumed the construction of the Erie railroad; and it is not too much to say, that but for the former, the Erie road would probably have been abandoned, even after the expenditure of many millions of dollars, and the Hudson River railroad

project remained untouched up to the present time.

The Western railroad, though constructed at immense cost, has proved to be one of the most productive works in the United States, paying an annual dividend of eight per cent., besides accumulating a large sinking fund. It has been the chief instrument of the extraordinary progress of Massachusetts in population, wealth, and commercial greatness, from 1840 to 1850. It supplies the State with a large

portion of many of the most important articles of food. It opened an outlet to the products of her manufacturing establishments and her foreign commerce, and stimulated every industrial pursuit to an extraordinary degree, and, from the results that have followed its opening, forced all our leading cities to the construction of similar works, with

similar objects.

Railroads from Boston to Lake Champlain and the St. Lawrence. The Western railroad, though accomplishing greater results, and exerting a wider influence upon the varied interests of the State, than either were or could, with reason, have been anticipated, secured to the city of Boston only a small portion of the western produce reaching Albany. As the canal, which has been the avenue for this produce, is in operation only during the period of navigation on the Hudson river, it is found that this produce can be forwarded to New York by water much cheaper than to Boston by railroad. Cost of transportation always determines the route. At the dullest season of the year for freights, flour is often sent from Albany to Liverpool at a cost not exceeding twenty-five cents per barrel, which is only equal to the lowest rate charged from Albany to Boston. The Western railroad, therefore, though a convenient channel through which the people of Boston and of Massachusetts draw their domestic supplies of food, is found unable to compete with the Hudson river as a route for produce designed for exportation to foreign countries or to the neighboring States. It failed to secure one of the leading objects of its construction. Its fault, however, was not so much ascribed to the idea upon which the road was built, as to the route selected to accomplish its object. It was felt that a route farther removed from the influence of the New York system of public works must be selected, and this conviction led to the project of a direct line of railroad from Boston to the navigable waters of Lake Ontario, passing to the north of Lake Cham-This line, freed from all immediate competition, and from the attractive influence of other great cities, would, it was believed, secure to Boston the proud preëminence of becoming the exporting port of western produce, and, as a necessary consequence, the emporium of the country.

This great line has been completed; but it has too recently come into operation to predict, with any certainty, the result. From Boston to Lake Champlain it is composed of two parallel lines: one made up of the Boston and Lowell, Nashua and Lowell, Concord, Northern (New Hampshire,) and Vermont Central; the other of the Fitchburg, a part of the Vermont and Massachusetts, Cheshire, and Rutland roads. From Burlington, on Lake Champlain, these roads are carried forward upon a common trunk, composed of the Vermont and Canada, and Ogdensburg (northern New York) roads, to Ogdensburg, on the St. Lawrence, above the rapids in that river, thus forming an uninterrupted line from the navigable waters of the great basin

to the city of Boston.

The lower portions of these lines in Massachusetts and New Hampshire were, in the outset, constructed chiefly with local objects in view. It was not until the State of Vermont was reached, that more comprehensive schemes began to give direction and character to the railroad enterprises in that quarter. The Vermont Central, the Rutland, and the Ogdensburg roads were commenced nearly simultaneously. The leading object in their construction was that to which we have already adverted. Only with such objects to be realized in the future, and not during the progress of the works, could they have been accomplished. Men were called upon to make—and they contributed under a conviction that they were making—great present sacrifices for a future and prospective good. The constancy with which these works have been sustained and carried forward under circumstances the most discouraging, and under an unexampled pressure in the money market, reflects high credit upon the people of Boston, by whom the money for them has been chiefly furnished, and is the best possible evidence of the value of the prize sought to be gained.

By means of the line above described, a railroad connexion is opened with Montreal, through which that city now receives a large amount of her foreign imports, both from the United States and Great Britain. This trade has already far exceeded expectation; and as the city of Boston is a convenient winter port for Montreal, the latter will, undoubtedly, continue to receive a large amount of her winter supplies of merchandise through the former, giving rise to a large and profitable traffic, both to the railroads connecting the two, and to the cities themselves, and tending to strengthen the position of each, as far as its hold

upon the trade of the country is concerned.

Should the line of railroad connecting Ogdensburg and Boston prove unable to compete successfully with the New York works, in the carriage of western produce, so far as the *export* trade is concerned, it will, undoubtedly, supply the demand for *domestic* consumption, and in this way not only secure a profitable traffic, but prove of great utility to the manufacturing and commercial districts of New England. For the articles of flour, corn, and cured provisions, the New England States depend principally upon the West. To supply these articles in a cheap, expeditious, and convenient manner, the above line is well adapted. It not only traverses many of the most important points of consumption, but connects with other roads penetrating every important portion of New England.

Were those immediately interested in the above roads to derive no other advantage than that of receiving their supplies of western products, and forwarding over them in return those of their own factories, they would be fully compensated for all their outlay. The unexampled progress of New England in population and wealth, in spite of all her disadvantages of soil and climate, proves, most conclusively, the wisdom and foresight of her people in constructing their numerous lines of railroad, which ally them to the more fertile and productive portions of

the country.

The distance from Boston to Ogdensburg is about four hundred and twenty-five miles. The rates charged for the transportation of a barrel of flour between the two have ranged from sixty to seventy-five cents per barrel, which is less than the cost on the Erie canal for the same article from Buffalo to Albany, (a distance of three hundred and sixty-three miles,) for many years after its opening. Upon a considerable

portion of the above line the grades are somewhat unfavorable, but not more so than upon other lines of road that aspire to a large throughtraffic.

Table showing the cost of the various lines of public improvements constructed for the purpose of securing to Boston the trade of the basin of the St. Lawrence and the West.

Western railroad, including Albany and West Stockbridge.	\$9,953,758
Boston and Lowell.	1,945,646
Lowell and Nashua	651,214
Concord.	1,485,000
Northern	2,768,000
Vermont Central	8,500,000
Fitchburg	3,612,486
Vermont and Massachusetts	3,450,004
Cheshire.	2,777,843
Rutland	4,500,000
Vermont and Canada	1,500,000
Ogdensburg or Northern	5,200,000
9	

46,343,951

Although only a portion of the Vermont and Massachusetts road is used in the above line, the total cost of the road is included, as it is proposed to make this road a part of a new line to the West, to be effected

by tunnelling the Hoosac mountains.

In addition to the roads aiming at Lake Champlain, there are two important lines, the Connecticut and Passumpsic, and the Boston, Concord, and Montreal roads—the former in Vermont, and the latter in New Hampshire-having a general northerly direction, which are designed to be ultimately extended to Montreal. The former has reached St. Johnsbury, a distance of two hundred and thirty-eight miles from Boston, and three hundred and thirty-two from New Yorka higher point than any yet attained by any New England road, with the exception of the Atlantic and St. Lawrence and the Vermont and Canada roads. The latter is nearly completed to Wells river, where it will form a junction with the Connecticut and Passumpsic road. The former will undoubtedly be soon extended about thirty miles farther north, to Island Point, which is the point of junction of the Atlantic and St. Lawrence and St. Lawrence and Atlantic railroads, through which it will have a railroad connexion both with Montreal and Que-The Boston, Concord, and Montreal railroad is now being extended to Littleton, a distance of twenty miles farther north, and will undoubtedly be continued up the valley of the Connecticut, for the purpose of forming a junction with the Atlantic and St. Lawrence road near Lancaster.

The Boston and Worcester road, next to the Western, is the most important project in the State. With the former, it makes a part of the through line to Albany, previously noticed. It is the only channel of communication between the city of Boston and the central portions of the

State, and commands a large local revenue in addition to its throughtraffic. It is one of the most expensive, and at the same time one of

the most profitable works of the kind in the country.

The Boston and Lowell, the Fitchburg, and the Lowell and Nashua roads, have already been briefly noticed in describing the great lines of which they severally form the trunks. All these possess a very large and lucrative *local* business, independent of what they derive from intersecting roads. They deservedly rank among the leading roads of the State, and the former was a pioneer work of the kind in this country.

Of the roads radiating from Boston in a southerly direction, the leading line is the Boston and Providence, which derives especial importance from connecting the two largest cities in New England. It also forms a part of one of the most popular routes to New York, and holds a conspicuous position from the necessarily intimate relation it bears to one of the great routes of commerce and travel. The next most important road in the southern part of Massachusetts is the Fall River road, which connects Boston with Fall River, a large manufacturing town, and constitutes a portion of another through-route to New York.

The other roads in this portion of Massachusetts, though of considerable local consequence, do not, for the want of connecting lines, pos-

sess any considerable interest for the public.

Railroads from Boston eastward.—Two important works, the Boston and Maine and Eastern roads, connect Boston with the State of Maine, traversing the northeastern portion of Massachusetts and the southeastern portion of New Hampshire. They form a junction soon after entering Maine, and are carried forward by the Portland, Saco, and Portsmouth railroad to Portland. The two former run through an almost continued succession of large manufacturing towns, which afford a very lucrative traffic to both lines. These roads are daily becoming more important from the rapid extension of railroads in Maine, and the probable construction of the European and North American railroad, connecting the Maine system of roads with St. John and Halifax, in the lower British provinces, which is destined to become a great route of travel between the Old World and the New. The above-named lines have already a very large through as well as local traffic, and occupy a conspicuous position as a part of our great coast-line of railroads.

There are several lines of road traversing the State of Massachusetts from north to south, of much consequence as through routes; among which may be named the Connecticut River line, and that made up of the Worcester and Nashua and the Norwich and Worcester and Providence and Worcester roads. These lines traverse districts filled with an active manufacturing population, for which they open a direct railway communication with New York, the great depot both of the foreign and

domestic trade of the United States.

The western portion of the State is also traversed from north to south by a line composed of the Housatonic and a branch of the Western road, extending to the town of North Adams. There are, too, in addition to these, numerous local works in the State, which do not call for particular notice.

In the State of New Hampshire there is but one work having for its object the concentration within itself of the trade of the State—the

Portsmouth and Concord railroad. The principal motive in the construction of this road was to open a communication with the trade of the interior, and to prevent its being drawn off to Boston on the one hand, and Portland on the other. This work secures to the city of Portsmouth all the advantages of a connexion with the line already described, by which the city of Boston proposes to draw to herself the trade of the West, and will undoubtedly contribute much to sustain the trade and commercial importance of the former.

The line of road traversing the Connecticut valley is briefly described under the "Railroads of Connecticut," and those traversing the western part of Vermont are embraced in the notice of the New

York system.

CONNECTICUT AND RHODE ISLAND.

Connecticut.—Population in 1830, 299,675; in 1840, 309,978; in 1850, 370,791. Area in square miles, 4,674; inhabitants to square mile, 79.33.

Rhode Island.—Population in 1830, 97,199; in 1840, 108,830; in 1850, 147,545. Area in square miles, 1,306; inhabitants to square mile, 112.97.

The railroads of Connecticut and Rhode Island, though numerous, and some of them important, derive their chief consequence from the relations they sustain to the works of other States, in connexion with

which they constitute parts of several main routes of travel.

The most prominent of these is the great line connecting Boston and New York. The portion of this line in Connecticut is made up of the New York and New Haven, and the New Haven, Hartford, and Springfield roads. These roads, in connexion with the Western, and Boston and Worcester, constitute the great travelled land-route connecting New England with New York, which justly ranks with the most important passenger roads in the United States, as it is one of the most profitable.

The travel between New York and Boston has also given birth to other projects, claimed to be still better adapted for its accommodation. The most prominent of these is the Air-Line road, designed to follow a nearly straight route between New Haven and Boston. Although this scheme has been long before the public, it has not been commenced, but there now appears to be a strong probability that it will be successfully undertaken. To open this route will only require the construction of that portion of it lying in Connecticut, as the Massachusetts link is already provided for by the Norfolk county road.

Another road, constructed partly with a view to giving a new route between Boston and New York, is the New London and New Haven road, recently opened to the public. This road is to be extended east, both to Stonington and Norwich, to form a connexion at the former place with the Norwich and Worcester, and at the latter with the Stonington, roads. By these connexions, two new routes would be formed between Boston and New York, one of which would take the important city of Providence in its course. It is, therefore, probable that at no distant day there will be four independent land routes between New York and Boston, in addition to the three lines now in operation, partly by water and partly by railroad.

By far the greater part of the travel, and no inconsiderable portion of the trade, between Boston and New York, is carried over the routes last named, which are known as the Fall River, Stonington, and Norwich and Worcester routes; the first is composed of the Fall River road; the second of the Boston and Providence, and Stonington; and the third, of the Boston and Worcester, and Norwich and Worcester, and their corresponding lines of steamers. All these routes are justly celebrated for the comfort and elegance of their accommodations; the ease, safety, and despatch with which their trips are performed; and are consequently the favorite routes of travelling by a large portion of the business and travelling public. The distance between Boston and New York, by these routes, is about 230 miles.

The other leading lines in Connecticut are the Housatonic, extending from Bridgeport to the State of Massachusetts, and connecting with the roads in the western part of that State; the Naugatuck, extending from Stratford to Winsted, a distance of about 60 miles; and the Canal railroad, extending from New Haven and following the route of the Old Farmington canal to the northern part of the State, whence it is to be carried forward to Northampton, in Massachusetts. An important line of road is also in progress from Providence, centrally through the States of Rhode Island and Connecticut, to Fishkill, on the Hudson river, taking the city of Hartford in its route. This road is regarded with great favor by the cities of Hartford and Providence, as a means of connecting themselves with the Hudson, through which both draw a very large amount of some important articles of consumption, such as breadstuffs, lumber, coal, and the like.

The railroads lying principally in Rhode Island are the Stonington, which has already been noticed, and which is chiefly important as a part of one of the leading routes between Boston and New York; and the Providence and Worcester road. The latter is an important local work, traversing for almost its entire distance a constant succession of manufacturing villages. It is also an important through-road to the city of Providence, bringing her in connexion with the Western railroad and the central portions of Massachusetts, and with New Hampshire and Vermont, by means of the railroads centring at Worcester.

The Boston and Providence railroad, lying partly in Rhode Island, is already sufficiently described in the notice of the Massachusetts railroads.

Another important line of railroads, not particularly noticed, which may be embraced in the description of the "railroads of Connecticut," is the great line following the Connecticut valley. This line, though composed of several distinct works, is in all its characteristics a homogeneous line. It traverses the most fertile, picturesque, and attractive portion of New England, and is important both from the large traffic and the pleasure-travel it commands. No line of equal extent in the United States presents superior attractions. It has already reached St. Johnsbury, Vermont, a distance of about 330 miles from New York, and 254 from New Haven. Measures are now in progress to secure its extension about 30 miles farther north to Island Point, there to form a junction with the St. Lawrence and Atlantic railroad, in connexion

with which a new, direct, and convenient route will be opened between New York and the New England States, and the cities of Montreal and Quebec.

MAINE.

Population in 1830, 399,455; in 1840, 501,798; in 1850, 583,169.

Area in square miles, 30,000; inhabitants to square mile, 19.44.

With the exception of the States of Maine and Connecticut, the railroad system of New England rests upon Boston as a common centre; by the capital of which it has been mainly constructed. The roads of Maine belong to an independent system, toward which the city of Portland bears the same relation as does Boston to the works already described.

The leading road in Maine forms a part of the line connecting Montreal and Portland, made up of the Atlantic and St. Lawrence in the United States, and the St. Lawrence and Atlantic in Canada. This great work was first proposed to the people of Portland as a means of recovering the position they had lost from the overshadowing influence of their great rival, Boston, and of securing to themselves a portion of the trade of the West, which is now exerting such marked influence

in the progress of all our great commercial towns.

Portland possesses some advantages over any other city east of New York, in being nearer to Montreal, the emporium of the Canadas; and in possessing a much more favorable route for a railroad from the Atlantic coast to the St. Lawrence basin than any other, east of the Green Mountain range. The city of Montreal, being accessible from all the great lakes by the largest craft navigating these waters, is the convenient depôt for the produce collected upon them. When once on ship-board, this produce may be taken to Montreal at slightly increased rates over those charged to Buffalo, Oswego, or Ogdensburg; but the want of a winter outlet from Montreal to tide-water has seriously retarded the growth and prosperity of that city, and prevented her from reaping all the advantages from her connexion, by her magnificent canals, with the trade of the West, which she would have secured by a convenient winter outlet. Formerly large amounts of western produce were usually collected there during the autumnal months, and warehoused till spring, and then shipped to England. Shipments by this route involved the necessity of holding produce received late in the season some four or five months. The inconveniences and losses arising from these causes, aided by the repeal of the English corn laws, were among the prominent reasons which led to the commercial arrangements by which colonial produce and merchandise are allowed to pass, in bond, through the territories of the United States. This arrangement had a tendency to divert a large trade from Montreal, and threatened the most disastrous consequences to its trade and prosperity. In view of this state of things, its citizens espoused and prosecuted the railroad to Portland with great energy and zeal. The whole work is far advanced toward completion on both sides of the line. The portion within the United States will be finished during the present year, and the Canadian portion by the 1st of July, 1853. It occupies the shortest practicable route between the St. Lawrence river and the Atlantic coast. Its grades are favorable, nowhere exceeding fifty feet to the mile in the direction of the heavy traffic, or sixty feet on the opposite course. The gauge of the whole road is to be five and a half feet. As no transhipment will be necessary upon this road, and as its operations can be placed substantially under one management, it is believed that produce can be transported over it at much lower rates than the ordinary charges upon railroads.

As before stated, the plan of a railroad from Portland to the St. Lawrence originated in the idea of the possibility of making that city the Atlantic terminus of a portion of the trade of the St. Lawrence and the great lakes. The city of New York had so long been in the exclusive possession of this trade, as to create the idea that she held it by a sort of natural and inalienable right. When the idea was proposed of turning this trade through a new channel, and of bringing it to the Atlantic, coast at a point some four hundred miles northward, the boldness of such a proposition was enough to stagger the credulity of every one who did not feel himself immediately interested in the result. As soon, however, as the prospect was fully unfolded to the people of Portland, its apparent practicability, and the advantages which it promised to secure, took complete possession of the public mind, and the city resolved, single-handed to undertake the construction of a work running, for a considerable portion of its distance, through comparatively unexplored forests; traversing for one hundred miles, at least, the most mountainous and apparently most difficult portion of the eastern States for railroad enterprises; and involving a cost, for the American portion alone, of over five millions of dollars. Repeated attempts had been made to construct a short road, for the accommodation of local traffic, upon the very route since selected for the great line, but without suc-The inducements held out were not regarded sufficient to warrant the necessary outlay. It was only by assuming that the people of Portland held within their grasp the trade of one of the most important channels of commerce in the whole country, that they could be induced to make the efforts and sacrifices necessary to success. These efforts and sacrifices have been made. The project is on the eve of realization, and the wisdom in which the scheme was conceived, and the skill and ability displayed in its execution, give the most satisfactory assurance of complete success.

The length of this line, the construction of which devolved upon the people of Portland, is about one hundred and sixty miles, costing about \$35,000 per mile, or an aggregate of nearly \$6,000,000. The first step in the process of construction was a stock subscription of over \$1,000,000 by the citizens of Portland, aided by some small contributions from towns on the route—for the project was regarded by all others as a mere chimera. This was expended in construction, and was sufficient to open the first division, which, running through an excellent country, at once entered into a lucrative traffic. The city of Portland then obtained, by two several acts of the legislature, permission to pledge its credit to the road to the amount of \$2,000,000. These sums, with some further additions to its stock, furnished a cash capital of over \$3,000,000 to the work. The necessary balance has been raised upon

stock subscriptions by contractors and company bonds. In this manner has a city of 20,000 inhabitants secured the construction of a first-class railroad, connecting it with the St. Lawrence by the shortest route practicable for a railroad from any of our seaports. The amount actually paid in to the project by the people of Portland will exceed \$50 in cash to each individual, in addition to \$100 to each, represented by the *credits* that have been extended. It is believed that no better monument exists in this country of the energy and enterprise of our people, and the successful co-operation of one community in the execution of a great enterprise by which all are, relatively speaking, to be equally benefited. It is an example which cannot be studied and

imitated without profit.

Prior to the construction of the Atlantic and St. Lawrence railroad, the only railroad of importance in the State was the Portland, Saco and Portsmouth road, which connected its commercial metropolis with the railroad system of Massachusetts. This road was constructed by persons interested in the connecting lines, as a necessary extension of their When the city of Portland was reached, their objects were re-Any further extension of railroads in Maine was garded as secured. Tooked upon as of doubtful utility to the interests of the city of Boston, the great centre of the New England system. It was felt that the construction of railroads north and east from Portland, into the interior, might concentrate in that city the trade of the State, which had been almost exclusively enjoyed by the former. This trade was already secured and sufficiently accommodated, as far as Boston was concerned, by the extensive commercial marine of the two States; and the construction of railroads, it was felt, might lessen instead of strengthening, the grasp by which she held it. While every other portion of the courtry was embarking in railroads, the conviction grew up that Maine was not the proper theatre for such enterprises, or, if it were, the people felt their means unequal to their construction, and it was known that no foreign aid would be had. All such projects, therefore, came to be regarded with comparative indifference. In this condition of the public mind the Atlantic and St. Lawrence scheme was proposed, and with it a system of railroads independent of the rest of the New England States, which should concentrate within her own territory her capital and energies, and which should not only place her in a commanding position in reference to the trade of the West, but, at the same time, place her en route of the great line of travel between the Old and New Worlds—a position combining all the advantages of the most favorable connexions with the domestic trade of the country and with foreign commerce and travel. These propositions constitute an era in the history of the State. A new life was infused into the public mind, and objects of the highest value held out as the reward of new efforts. The effect upon the policy and public sentiment of the State has been magical. The whole people felt and saw that they have rights and interests to maintain and vindicate, and that Maine, instead of being a remote and isolated State, removed from participation in the projects and schemes which are effecting changes so marvellous upon the face of society, could be brought by her own efforts into the very focus of the great modern movement. A new destiny was opened before her. To this call she has nobly responded, and the State is alive with projects that promise, in a few years, to secure to every portion of it all necessary railroad accommodations, with the results which always follow in their train.

Next in importance to the Atlantic and St. Lawrence railroad is the European and North American project, which is designed to become a part of the great route of travel between the Old World and the New. Under the above title is embraced the line extending from Bangor, Maine, to Halifax, Nova Scotia, taking St. John, New Brunswick, in its route. From Bangor west, the line is to be made up of the Penobscot and Kennebec road, now in progress; the Androscoggin and Kennebec road, with a portion of the Atlantic and St. Lawrence, now in operation. When the whole line shall be completed, it is claimed that the transatlantic travel will pass over this road to and from Halifax, and that through Maine will be the great avenue of travel between Europe and America. Without expressing any opinion as to the soundness of such claims, their correctness is at present assumed, and is made the basis of action on the part of the people of the State, and, to a certain extent, gives character and direction to their railroad enterprises.

Of this great line, that portion extending from Portland to Water-ville, a distance of eighty-two miles, is already provided for by a portion of the Atlantic and St. Lawrence and the Androscoggin and Kennebec railroads. The portion from Waterville to Bangor, something over fifty miles, is in progress. From Bangor to the boundary line of New Brunswick, no definite plan has been agreed upon; although the subject is receiving the careful consideration of the parties having it in charge, and no doubt is expressed that such measures will be taken as shall secure complete and early success to the measure. Brunswick portion of it is already provided for by a contract with a company of eminent English contractors, who, it is believed, will also undertake the Nova Scotia division. Of the realization of this scheme at the earliest day, there can be no doubt. The plan meets with as hearty approval in the provinces, and in Great Britain, as it does in Maine; and on both sides of the water are the results claimed fully conceded. Such being the fact, foreign capital will be certain to supply, and is, indeed, now supplying, whatever may be lacking in this country.

Another leading road in Maine is the Kennebec and Portland, extending from Portland to Augusta, upon the Kennebec river, a distance of over sixty miles. This road it is proposed to extend, to form a junction with the Penobscot and Kennebec, by which it will become a convenient link from Portland east, in the great European and North American line already referred to.

An important line of road is also in progress, to extend from Portland to South Berwick, there to form a junction with the Boston and Maine road—thus forming two independent lines of railroad between Portland and Boston. A portion of this line is in operation, and the whole under contract, to be completed at an early day.

A project of considerable importance is also at the present time

engrossing the attention of the people of Bangor—that of a railroad following the Penobscot river up to Lincoln, a distance of about fifty miles. As the route is remarkably favorable, and easily within the means of the city of Bangor, its speedy construction may be set down as certain. It is much needed to accommodate the important lumbering interest on that river. From Bangor to Oldtown—a distance of twelve miles—a railroad already exists, which will form a part of the above line.

The projects enumerated embrace a view of all the proposed works

in Maine, of especial public interest.

NEW JERSEY.

Population in 1830, 320,823; in 1840, 373,306; in 1850, 489,555,

Area in square miles, 8,320; inhabitants to square mile, 58.84.

The railroads of New Jersey, as do those of the State of Connecticut, derive their chief importance from their connexion with the routes

of commerce and travel of other States.

The most important roads in the State are those uniting New York and Philadelphia, the Camden and Amboy and the New Jersey railroads, in connexion with the Philadelphia and Trenton road, lying within the State of Pennsylvania. Upon these roads are thrown not only the travel between the two largest cities in the United States, but between the two great divisions of the country. As might be expected from such relations, they command an immense passenger traffic, and rank among our most successful and productive works of the kind. They are much more important as routes of travel than of commerce, as the Raritan canal, which has the same general direction and connexions, is a better medium for heavy transportation.

Another important work is the New Jersey Central, which traverses the State from east to west. At Elizabethtown it connects with the New Jersey road, thus forming a direct railroad connexion between New York and Easton, on the Delaware river. This road, though locally important, is still more so from its prospective connexions with other great lines of road, either in progress or in operation. It is proposed to extend it up the valley of the Lehigh, and through the mountain range lying between the Delaware and Susquehanna rivers, to Catawissa, on the latter, from which it will be carried to Williamsport, to form a connexion with the Sunbury and Erie road, which is about to be com-Upon the completion of these, the Central would not only form a very important avenue between the city of New York and the coal-fields of Pennsylvania, from which that city draws its supplies of fuel; but would unite the city with Lake Erie, opening a new and direct line for the trade of the West, and placing New York in very favorable relations to the proposed Sunbury and Erie line. From Easton to Sunbury a large amount has already been expended for the purpose of opening he above communication, and no doubt is expressed that this project will be speedily realized.

A road is also in progress from Trenton, designed to follow the Delaware up to the Water Gap, for the purpose of connecting with the

proposed road from the Lackawanna valley to that place, and of opening an outlet for the latter in the direction of Philadelphia. This road has already been completed to Lambertville, and is in progress beyond

that point.

Another important road in this State, possessing similar characteristics with the Central, is the Morris and Essex. This road is now in operation to Dover, a distance of about forty miles from New York, and is in progress to a point on the Delaware river, opposite the Water Gap. From the Water Gap a road is proposed extending to the Lackawanna valley, at Scranton, the centre of very extensive deposites of iron and coal. The importance of a continuous line of railroad from the coal-fields of Pennsylvania to New York has already been adverted The extension of the Morris and Essex line into the Lackawanna valley is of the first consequence, from the connexion it would there form. This valley is already connected with western New York and the great lakes, and will be the focal point of a large number of roads, constructed for the purpose of becoming outlets for its coal in a northerly direction. By the opening of a railroad from this valley to New York, a new and important route would be formed between that city and the lakes, which could not fail to become a valuable one, both for commerce and travel.

Through the northern part of the State, the Erie railroad is now brought to Jersey City by means of what is now called the Union railroad, composed of two short roads, previously known as the Paterson and the Paterson and Ramapo; the track of this will be relaid, so as to correspond to the Erie gauge. Through this road the Erie is brought directly to the Hudson, opposite New York—a matter of great importance so far as its passenger traffic is concerned. The former is leased to, and is run as a part of, the Erie road.

A railroad is also in progress from Camden, opposite Philadelphia, to Absecum Beach, on the Atlantic coast. This road will traverse the State centrally, from northwest to southeast, and will prove a great

benefit to the country traversed.

Canals of New Jersey.

There are two canals of considerable importance in the State—the

Delaware and Raritan, and the Morris and Essex.

The Delaware and Raritan canal, the most considerable work of the two, commences at New Brunswick and extends to Bordentown, a distance of 43 miles. It is 75 feet wide at the surface, and 47 at the bottom, and 7 feet deep. There are seven locks at each end, 110 feet long, and 24 feet wide, having eight-feet lift each. These locks pass boats of 228 tons burden. The canal is supplied from the Delaware river, by a feeder taken out 22 miles above Trenton. This canal connects with the Delaware division of the Pennsylvania canals, and is the principal channel through which New York is supplied with coal. It also commands a large amount of freight between New York and Philadelphia, and is navigated by regular lines of propellers, running between the two cities. This work is of very great importance

to the city of New York, as a means of supplying that city with coal, and as affording a convenient channel of communication with Philadelphia. It is also an important work in a national point of view; as, in connexion with the Chesapeake and Delaware and the Dismal Swamp canals, it forms an internal navigable water-line, commencing with Long Island sound, and extending south, and by way of the cities of New York, Philadelphia, Baltimore, and Norfolk, to the south part of North Carolina. This fact was regarded of great consequence to the commerce of the country, prior to the construction of railroads, as it would have enabled our people to maintain an uninterrupted communication between the different portions of the country in the event of a war with a foreign power.

Morris and Essex canal.—This work extends by a circuitous route from Jersey City to the Delaware river, at Easton. Its length is about one hundred miles. Its revenues are principally derived from the local traffic of the country traversed, and the transportation of coal, which is brought to Easton by the Lehigh canal. Its relations to the commerce of the country are not such as to call for particular notice.

PENNSYLVANIA.

Population in 1830, 1,348,233; in 1840, 1,724,033; in 1850, 2,311,786. Area in square miles, 46,000; inhabitants to square mile, 50.25.

The attention of the people of Pennsylvania was, at an early period in our history, turned to the subject of internal improvements, with a view to the local wants of the State, and for the purpose of opening a water communication between the Delaware river and the navigable waters of the Ohio. It was not, however, till stimulated by the example of New York, and the results which her great work, the Erie canal, was achieving in developing and securing to the former the trade of the West, that the State of Pennsylvania commenced the construction of the various works which make up the elaborate system of that State.

The great Pennsylvania line of improvement, extending from Philadelphia to Pittsburg, was commenced on the 4th of July, 1826, and was finally completed in March, 1834. It is made up partly of railroad and partly of canal, the works that compose it being the Columbia railroad, extending from Philadelphia to Columbia, a distance of 82 miles; the eastern and Juniata divisions of the Pennsylvania canal, extending from Columbia, on the Susquehanna river, to Hollidaysburg, at the base of the Alleghany mountains, a distance of 172 miles; the Portage railroad, extending from Hollidaysburg to Johnston, a distance of 36 miles, and by which the mountains are surmounted; and the western division of the Pennsylvania canal, extending from Johnston to Pittsburg, a distance of 104 miles; making the entire distance from Philadelphia to Pittsburg by this line 394 miles. The canals are 4 feet deep, 28 feet wide at the bottom, and 40 at the water-line. Its locks are 90 feet long, and from 15 to 17 feet wide. The Alleghany mountains are passed by a summit of 2,491 feet, and the eastern division of the canal attains a height of 1,092 feet above tide-water. The Portage road consists of a series of inclined planes, which are worked by stationary engines.

The cost of this great line up to the present time has been about

\$15,000,000.

The eastern division of the canal has an additional outlet, by means of the Tidewater canal, (a private enterprise,) which extends from Columbia to Havre de Grace, on the Chesapeake bay, in Maryland. It forms an important avenue between both Philadelphia and Baltimore, and the interior of the State, as the boats that navigate it are, after reaching tide-water, conveniently taken to either city, as the case may require.

The line of improvement we have described was constructed with similar objects, and bears the same relation to the city of Philadelphia as does the Erie canal to the city of New York. It has not, however, achieved equal results, partly from the want of convenient western connexions, from the unfavorable character of the route, and partly from the fact that the line is made up of railroad and canal, involving greater cost of transportation than upon the New York work. has, however, proved of vast utility to the city of Philadelphia and to the State, and has enabled the former to maintain a very large trade which she would have lost but for the above line. The comparatively heavy cost of transportation over this route has not enabled it to compete with the New York improvements, as an outlet for the cheap and bulky products of the West; but so far as the return movement is concerned it enjoys some advantages over the former, the most important of which is the longer period during which it is in operation. At the commencement of the season it opens for business about a month earlier than the Erie canal—a fact which secures to it and to the city of Philadelphia a very large trade long before its rival comes into operation; so that, although it may not have realized the expectations formed from it, as an outlet for western trade, it has been the great support of Philadelphia, without which her trade must have succumbed to the superior advantages of New York.

It would be a matter of much interest could the movement of property, upon the two lines of improvement from tide-water to the navigable waters of the West, be compared, both in tonnage and value. The returns of the Pennsylvania works, however, do not furnish the necessary data for such a comparison. There are no methods of distinguishing, accurately, the local from the through-tonnage, nor the quantity or value of property received from other States, as is shown upon the New York works. The returns of the business on the former, however, show only a small movement east over the Portage road, which must indicate pretty correctly the through movement. the opposite direction the amount, both in value and tonnage, is much larger. A better idea, probably, can be formed of the value and amount of this traffic from the extent of the jobbing trade of Philadelphia, a very considerable portion of which must pass over the above route. Philadelphia, though it does not possess a large toreign commerce, is one of the great distributing points of merchandise in the Union; and the large population and the very rapid growth of that city, in the absence of the foreign trade enjoyed by New York, proves con-

clusively the immense domestic commerce of the former.

Another great line of improvement undertaken by the State is composed of the Susquehanna division of the Pennsylvania canal, extending from the mouth of the Juniata to Northumberland, a distance of 39 miles, and the North Branch canal, extending from Northumberland to the State line of New York, a distance of 162 miles, where it will connect with the New York State works and the numerous proposed lines of railroad centring at Elmira. Of this last named canal, 112 miles, extending from the mouth of the Juniata to Lackawannock, have been completed, at a cost of nearly \$3,000,000, and the remainder of the line is in rapid progress. As the lower part of this canal will connect with the Pennsylvania, and through this with the Tide-water canal, a great navigable water-line will be constructed, extending through the central portions of the State from north to south. line will, for a considerable portion of its distance, traverse the authracite coal-fields of the State, from which a large traffic is anticipated. A large trade is also expected from the New York works in such articles as Philadelphia and Baltimore are better adapted to supply than New York.

Another important work, so far as the coal trade of the country is concerned, is the *Delaware division* of the *Pennsylvania canal*, extending from Bristol to Easton, a distance of 60 miles. This work forms the outlet to the great Lehigh coal-fields. Its cost has been about \$1,500,000. In the western portion of the State several important works were projected, as a part of the great system originally proposed, although only an inconsiderable portion of them has been completed by the State. Of these are, first, the *Beaver division* of the Pennsylvania canal, commencing at Beaver, on the Ohio, at the mouth of Beaver river, and extending to Newcastle, about 25 miles. This canal forms the trunk of the Mahoning canal, extending from the State line of Pennsylvania to the Ohio canal, at Akron, a distance of about 76 miles; and also of the Erie extension of the Pennsylvania canal, commencing near Newcastle and extending to Erie, a distance of about 106 miles.

This last-described work has passed into private hands; it is at the present time chiefly employed in the transportation of coal, and is the principal avenue for the supply of this article to Lake Erie. Connected with the Erie extension is a State work, called the French creek feeder and Franklin branch, extending from Franklin, on the Alleghamy river, to Conneaut lake, by way of Meadville, a distance of about fifty miles. These improvements in the western part of the State are chiefly important as local works; they have not proved productive as investments, though highly beneficial to the country traversed.

The West Branch canal, extending from Northumberland to Lock-haven, a distance of seventy-two miles, is a work of much local importance, as it traverses a region very rich both in soil and minerals.

The above constitute the leading works which belong to the State system, as it may be termed. There are a few other works of minor importance, which do not call for particular notice.

So far as their income is concerned, the various works undertaken and executed by the State have not proved productive, though they have been of vast utility, and have exerted a great influence in devel oping the resources of the State. The usefulness of the great Central line has been seriously impaired by the compound and inconvenient character of the work, made up partly of railroad and partly of canal. The mountains are overcome by inclined planes, which are now regarded as incompatible with the profitable operation of a railroad, and which are to be avoided on the route by works now in progress. other works described, not having been carried out according to the original plan, have failed to make the connexions contemplated, and consequently have not realized the results predicted. The State of Pennsylvania, however, possesses within herself elements which, properly developed, are fitted to render her, probably, the first State in the Union in population and wealth. This has, to a great extent, been already effected by the works described, which have in this way added to the various interests of the State a value tenfold greater than the cost; and her people can much better afford to pay the immense sums which these works have cost, than remain unprovided with such improvements, even with entire freedom from debt.

Annexed is a tabular statement, showing the length and cost of the various State works above described.

Tabular statement showing the length, cost, total revenue, and expenditures of the public works of Pennsylvania up to January 1, 1852.

Lines.	Length.	Cost.	Revenue.	Expenditures.
Columbia and Divil. 1.1.1.1 1	Miles.	# 1 FO1 F10 G1	A. 400 000 VD	*******
Columbia and Philadelphia railway. Eastern division of canal	82	\$4,791,548 91	\$7, 483, 395 53	\$5, 105, 058 39
Juniata division of canal	43 130	1,737,236 97 3,570,016 29	2,661,008 05	762, 981 30
Alleghany Portage railway	36	1, 860, 752 76	1, 371, 948 59 2, 985, 769 10	1,760,583 19 3,161,327 26
Western division of canal	105	3, 096, 522 30	2, 523, 979 59	1, 197, 182 83
Total main line	396	15, 056, 077 23	17, 026, 100 86	11, 987, 132 97
Delaware division of canal	60	1, 384, 606 96	2, 238, 694 75	1 117,716 70
Susquehanna division of canal	39	897, 160 52	402,779 15	554, 835 22
North Branch division of canal	73	1, 598, 379 35	1,003,047 58	753, 662 17
West Branch division of canal	72	1, 832, 083 28	449, 058 19	738, 470 58
	640	20, 768, 307 34	21, 119, 680 53	15, 151, 817 64
Frènch Creek division of canal	45	817, 779 74	5, 819 67	143, 911 94
Beaver division of canal	25	512, 360 05	38, 312 29	210, 360 00
Finished lines	710	22, 098, 447 13	21, 163, 812 49	15, 506, 089 58
Unfinished improvements	314	7,712,531 69		
Board of Canal Commissioners		70, 782 67		70, 782 66
Beard of Appraisers Collectors, weighmasters, and lock-		17, 584 93		
keepers		,		1, 348, 384 14
Exploratory surveys		157, 731 14		
Total	1,024	30, 057, 077 56	21, 163, 812 49	16, 925, 256 36

Private Works.

Pennsylvania railroad.—The object of the Pennsylvania railroad is to provide a better avenue for the trade between Philadelphia and the interior—one more in harmony with the works in progress and operation in other States than the great line already described. The latter is not only poorly adapted to its objects, but is closed a considerable portion of the year by frost. The mercantile classes of Philadelphia have long felt the necessity of a work better adapted to their wants, and fitted to become a great route of travel as well as commerce, from the intimate relation that the one bears to the other. It is by this interest that the above work was proposed, and by which the means have been furnished for its construction. The conviction of which we have spoken has been instrumental in procuring the money for this project as fast as it could be economically expended. The work has been pushed forward with extraordinary energy from its commencement. Already a great portion of the line has been brought into operation, and the whole will soon be completed.

The Pennsylvania railroad commences at Harrisburg and extends to Pittsburg, a distance of 250 miles. The general route of the road is favorable, with the exception of the mountain division. The summit is crossed at about 2,200 feet above tide-water, involving gradients of 95 feet to the mile, which are less than those resorted to on the Baltimore and Ohio railroad, and not much exceeding those profitably worked on the Western railroad of Massachusetts. The route is graded, and the structures are prepared for a double track, which will be laid as soon as possible after the first shall be opened. The cost

of the road, for a single track, is estimated at \$12,500,000, of which \$9,750,000 have been already provided by stock subscriptions. The balance is to be raised by an issue of bonds. The road is to be a first-

class work in every respect, and is constructed in a manner fitting the great avenue between Philadelphia and the western States.

As a through route, both for trade and travel, there is hardly a work of the kind in the United States possessing greater advantages, or a stronger position. Its western terminus—Pittsburg—is already a city of nearly 100,000 inhabitants, and is rapidly increasing. That city is the seat of a large manufacturing interest, and the centre of a considerable trade; and a road connecting it with the commercial metropolis of the State cannot fail to command an immense and lucrative traffic.

The western connexions which this road will make at Pittsburg are of the most favorable character. It already has an outlet to Lake Erie through the Ohio and Pennsylvania and the Cleveland and Wellsville roads. The former of these is regarded as the appropriate extension of the Pennsylvania line to the central and western portions of Ohio. Through the Pittsburg and Steubenville road—a work now in progress—a connexion will be opened with the Steubenville and Indiana railroad, which is in progress from Steubenville to Columbus. These lines, in connexion with the Pennsylvania road, will constitute one of the shortest practicable routes between Philadelphia and central Ohio. At Greenburg, 25 miles east of Pittsburg, the Hempfield railroad will

form a direct and convenient connexion with Wheeling, which has already become an important point in the railroad system of the country. At that city, by means of the Hempfield line, the Pennsylvania road will be connected with the Central Ohio, and with the northern extension of the Cincinnati and Marietta, roads; and through all the above-named lines the former will be brought into intimate and convenient relations with every portion of the western States.

The Pennsylvania road must also become a route for a considerable portion of the travel between the western States and the more northern Atlantic cities. From New York it will constitute a shorter line to central Ohio than any offered by her own works. It will, for such travel, take Philadelphia in its course—a matter of much importance

to the business community.

The route occupied by the road is one of the best in the country for local traffic—possessing a fertile soil and vast mineral wealth in its coal and iron deposites. From each of these sources a large business may be anticipated. The whole road cannot fail, in time, to become the seat of a great manufacturing interest, for which the coal and iron

upon the route will furnish abundant materials.

The Pennsylvania road, though only partially opened for business, has demonstrated its immense importance to the trade of Philadelphia. It was the means of securing to that city, during the present year, a very large spring trade, which otherwise would have gone to New York. The advantages already secured are but an earnest, it is claimed, of what the above work will achieve, when fully completed. It is confidently expected, by its projectors, that the work will be followed by the same results to Philadelphia that the Erie canal secured to the city of New York. However this may be, there can be no doubt of its becoming the channel of an extensive commerce, and one calculated to promote, in an eminent degree, the prosperity of the city of Philadelphia, as well as that of the whole State.

The next most important work in the State, and one of greater local importance, is the *Philadelphia and Reading* railroad. This work is the great outlet of the Schuylkill coal-fields to tide-water. On this account it bears a most intimate relation to most of the great interests of the country. Its length is about 90 miles, and its total cost about \$17,000,000. It is one of the most expensive and best-built roads in the United States. All its grades are in favor of the heavy traffic. Nearly 2,000,000 tons of coal have been transported over this road the past year. There can be no doubt that the enormous coal traffic which this road secures to Philadelphia is one of the causes of the extraordinary increase of that city from 1840 to 1850. This work has not, till a comparatively recent period, proved a profitable one to the stockholders; but it is confidently expected that for the future it will yield a lucrative income.

Philadelphia, Wilmington, and Baltimore railroad.—This work lies partly in the three States of Pennsylvania, Delaware, and Maryland, but may be appropriately described with the Pennsylvania roads. Its income is chiefly derived from its passenger traffic. It is one of the most important trunks in the great coast-line of railroads between the North and the South, and would be supposed to be one of the best routes

in the country for a lucrative traffic. Its length is 98 miles, and it has cost something over \$6,000,000. It has been an expensive work to construct and maintain, and has not, consequently, proved very profitable to stockholders, though its value in this respect is rapidly increasing. Its position is such as to monopolize the travel between its termini, and between the northern and southern States.

Among the other railroads in operation in the State may be named, 1st, the Philadelphia and Trenton, one of the links of the principal line of road connecting Philadelphia with New York, and, for this reason, an important work. This is one of the leading routes of travel in the country, and commands a very profitable traffic. 2d, the Harrisburg and Lancaster road, which forms a part of the great line through the State. 3d, the York and Cumberland road, which is to form a part of the line through central Pennsylvania, of which the Susquehanna road is to be an important link. 4th, the Cumberland Valley road, extending from Harrisburg to Chambersburg. 5th, the Lackawanna and Western road, connecting the northern coal mines of Pennsylvania with the New York improvements. 6th, the Philadelphia, Germantown, and Norristown road, of which it is proposed to form the base of a line extending from Norristown to the Delaware river. 7th, the Franklin railroad, extending from Chambersburg to Hagerstown, Maryland. 8th, the Northeast. 9th, the Franklin Canal road, extending from Erie to the Ohio State line. These two last form the only existing link between the railroads of the Mississippi valley and of the eastern States, and will, from their favorable relations, command an immense business. The Lackawanna and Western will soon become a part of another through route from western New York to the city. Already are roads either in progress or in operation from New York to the Water Gap. The completion of these will leave only about forty-five miles of new line, to open a new and shorter route from Great Bend, on the Erie road, to the city of New York, than by that line.

There are also in the eastern part of the State numerous coal roads, the most important of which is the Pennsylvania Coal Company's road, extending from the Lackawanna valley, a distance of something over forty miles, to the Delaware and Hudson canal. With the above exception, the coal roads are short lines; as they are purely local works,

a description of them is not appropriate to this report.

There are several very important works, proposed and in progress, in the State. Those in the eastern part of it are: the road from Norristown to the Delaware river, which is to be extended to the Water Gap, for the purpose of forming a connexion with the proposed road to the Lackawanna valley; the Catawissa, Williamsport, and Erie road, which is the virtual extension of the Reading road into the Susquehanna valley; and a road extending from Easton, following up the valley of the Lehigh, to a junction with the road last named. The first of these is in progress. The Catawissa road was partially graded some years since, and efforts are now making to secure its completion. The road up the valley of the Lehigh is regarded as the virtual extension of the New Jersey Central road into the valley of the Susquehanna, where a connexion will be formed with the Sunbury and Erie road; thus opening a direct communication between the latter and New York, and

placing that city in as favorable connexions with the proposed line to Lake Erie as Philadelphia.

An important line of road is soon to be commenced, extending from Harrisburg up the valley of the Susquehanna to Elmira, in the State of New York. This work may be regarded as a Baltimore project, and is sufficiently described in connexion with the Baltimore and Susque-

In the western part of the State, the leading work in progress is the Alleghany Valley road, extending from Pittsburg in a generally northeastern direction to Olean, on the New York and Erie road, which is the probable terminus of the Genesee Valley and the Buffalo and Olean roads. The length of the Alleghany Valley road will be about one hundred and eighty miles. Its gauge will probably correspond to that of the New York and Erie road. In connexion with this, it will form a very direct and convenient route between the cities of New York and Pittsburg, and also between the latter and the cities of Albany and Boston, through the Albany and Susquehanna road. By the above lines, the Alleghany Valley road will connect Pittsburg with Lakes Erie and Ontario, and with the Hudson river. The road will traverse one of the best portions of Pennsylvania, possessing a fertile. soil, and abounding in extensive deposites of coal and iron. The project has the warm support of Pittsburg, and when the inducements to its construction are considered, and the means that can be made applicable to this end, its early completion cannot be doubted.

Another road in progress in western Pennsylvania is the Hempfield; extending from Greensburg, on the Pennsylvania road, to Wheeling, a distance of about 78 miles. One of the leading objects of this road is to connect the great Pennsylvania line with the roads centring at Wheeling. It derives its chief public consideration from this fact, although its line traverses an excellent section of country, which would yield a large local traffic. This project is regarded with much favor by the people of Philadelphia, from the supposed favorable connexions it will make with the Ohio Central and the northern extension of the Cincinnati and Marietta roads. When completed, it will undoubtedly

become an important avenue of trade and travel.

The Pittsburg and Steubenville road resembles the Hempfield, both in its objects and its direction. It was proposed as a more direct route to central Ohio than that supplied by the Ohio and Pennsylvania railroad. One of the leading motives for its construction was to counteract any influence that the Hempfield road might exert prejudicial to the interests of Pittsburg, by placing that city on one of the shortest routes between the East and the West. At Steubenville, it will connect with the Steubenville and Indiana road, now in progress from that city to Columbus, the capital of Ohio.

The proposed Sunbury and Erie railroad is intended to bear the same relation to Philadelphia, in reference to the trade of Lake Erie and the West, as does the Erie railroad to New York. Its length will be about 240 miles. Active measures are in progress to secure the necessary means for this work, which promise to be successful. The whole distance by this route, from Philadelphia to Lake Erie, will be about 420

miles; somewhat less than that from New York.

There are a number of canals in the State, owned by private companies, the most important of which are the Schuylkill and Lehigh canals, which have been constructed for the purpose of affording outlets for the anthracite coal-fields of that State. They derive their chief consequence from their connexion with the coal trade, although they have a large traffic in addition. These works, though of great utility and importance, from the relations they sustain to the varied interests of the country, in supplying them with fuel, are of a local character, and do not form portions of any extended routes of commerce.

The Tidewater canal has been briefly alluded to in the notice of the "State works," to which it supplies a communication with Chesapeake bay, and with the cities of Baltimore and Philadelphia, by a continuous water-line. It is a valuable improvement, and forms the outlet for a large and important section of the State, and for a portion of the commerce passing over the State works. It is a work of large capacity, and is in possession of an extensive trade. It is also a chan-

nel through which a large quantity of coal is sent to market.

DELAWARE.

Population in 1830, 76,748; in 1840, 78,085; in 1850, 91,532. Area

in square miles, 2,120; inhabitants to square mile, 43.17.

The only road lying entirely in this State is the Newcastle and Frenchtown, connecting the Delaware with Chesapeake bay, by a line of 16 miles. This road was once of considerable importance, as it formed a part of the route of travel between the East and the West, which has since been superseded by the Philadelphia, Wilmington, and Balmmore railroad. It may now be regarded only as a work of local

consequence.

Chesapeake and Delaware canal.—The only improvement of any considerable importance in Delaware is the Chesapeake and Delaware canal, connecting the above-named bays. This work is 13½ miles long, 66 feet wide, 10 feet deep, with two lift and two tide locks. It cost nearly \$3,000,000. A very considerable portion of its cost was furnished by the general government, in donations of land. The work bears a similar relation to the commerce of the country with the Raritan canal, and makes up a part of the same system of internal water-navigation. It is also the channel of a large trade between Chesapeake bay and Philadelphia and New York.

The Philadelphia, Wilmington and Baltimore railroad lies partly within the State of Delaware, and has been sufficiently described under the

head of "Pennsylvania."

MARYLAND.

Population in 1830, 447,040; in 1840, 470,019; in 1850, 583,035. Area in square miles, 9,356; inhabitants to square mile, 62.31.

Influenced by similar objects to those which actuated the people of Philadelphia, New York, Boston, and the eastern States, in their immense expenditures for works that facilitate transportation, the people of Mary-

land, at an early period, commenced two very important works, the Chesapeake and Ohio canal and the Baltimore and Ohio railroad, for the purpose of attracting the trade of the interior, and of placing themselves on the routes of commerce between the two grand divisions of the country. By the deep indentation made by the Chesapeake bay, the navigable tide-waters are brought into nearest proximity to the Mississippi Valley in the States of Maryland and Virginia. To this is to be ascribed the fact, that before the use of railroads, the principal routes of travel between the East and the West were from the waters of that bay to the Ohio river. The great National road, established and constructed by the general government, commenced at the Potomac river, in Maryland, and its direction was made to conform to the convenient route of travel at that time.

No sooner had experience demonstrated the superiority of railroads to ordinary roads, than the people of Baltimore assumed the adaptation of them to their routes of communication, and immediately commenced the construction of that great work, the *Baltimore and Ohio* railroad, which, after a struggle of twenty-five years, is now on the eve

of completion.

This road was commenced in 1828, and was one of the first roads brought into use in the United States. At the early period in which it was commenced, the difficulties in the way of construction were not appreciated. These obstructions, now happily overcome, for a long time proved too formidable to be surmounted by the engineering skill and ability, the experience in railroad construction, and the limited amount of capital which then existed in the country. Though for a long time foiled, its friends were by no means disheartened, but rose with renewed vigor and resolution from every defeat, until the experience of successive efforts pointed out the true pathway to success.

The Baltimore and Ohio railroad extends from Baltimore to Wheeling, on the Ohio river, a distance of 379 miles. Its estimated cost is \$17,893,166. It crosses the Alleghany mountains at an elevation of 2,620 feet above tide-water, and 2,028 feet above low water in the Ohio river, at Wheeling. In ascending the mountains from the east, grades of 116 feet to the mile are encountered on one plane, for about fifteen miles, and for about nine miles in an opposite direction. Grades of over 100 feet to the mile, for over ten miles, are met with on other portions of the line. These grades, which only a few years since were regarded as entirely beyond the ability of the locomotive engine to ascend, are now worked at nearly the ordinary speed of trains, and are found to offer no serious obstacle to a profitable traffic. Occurring near to each other, they are arranged in the most convenient manner for their economical working, by assistant power. With the above exception, the grades on this road will not compare unfavorably with those on similar works.

The road is now opened to a point about 300 miles from Baltimore, and will be completed on or before the first day of January next.

Whatever doubt may have existed among the engineering profession, or the public, as to the ability of this road, with such physical difficulties in the way, to carry on a profitable traffic, they have been removed by its successful operation. That grades of 116 feet to

the mile, for many miles, had to be resorted to, is full proof of the magnitude of the obstacles encountered. Its success in the face of all these, of a faulty mode of construction in the outset, and of great financial embarrassment, reflects the very highest credit upon the company,

and upon the people of Baltimore.

As before stated, the first route of travel between the East and the West, was between the waters of the Chesapeake and the Ohio. opening of the Erie canal, and, subsequently, of the railroads between the Hudson river and Lake Erie, diverted this travel to this more north ern and circuitous, but more convenient route. This diversion seriously affected the business of Baltimore, and materially lessened the revenues of the Baltimore and Ohio railroad, since its opening to Cumberland. All this lost ground the people of Baltimore expect to regain; and with it, to draw to themselves a large trade now accustomed to pass to the more northern cities. Assuming the cost of transportation on a railroad to be measured by lineal distance, Baltimore certainly occupies a very favorable position in reference to western trade. To Cincinnati, the great city of the West, and the commercial depot of southern Ohio, the shortest route from all the great northern cities will probably be by way of Baltimore, and over the Baltimore and Ohio railroad. strengthen her position still farther, the people of this city have already commenced the construction of the Northwestern railroad, extending from the southwestern angle of the Baltimore and Ohio railroad to Parkersburg, on the Ohio river, in a direct line towards Cincinnati. The distance from Baltimore to Parkersburg, by this route, will be about 395 miles, and about 580 to Cincinnati, by the railroads in progress through southern Ohio.

From Wheeling the main trunk will be carried to the lakes by the Clereland and Wellsville railroad, now completed to Wellsville, 100 miles, and in progress from Wellsville to Wheeling, 36 miles; and through central Ohio to Columbus, by the Central Ohio railroad, now in operation from that place to Zanesville, a distance of about 60 miles, and in progress east to Wheeling, about 82 miles. When the Ohio, therefore, is reached, Baltimore will be brought into immediate connexion with all the avenues of trade and travel in the West, and will be in a strong position to contend for the great prize—the interior commerce of the

country.

The local traffic of this road assumes a great importance from the immense coal trade which must pass over it from the extensive mines situated near Cumberland. The superior quality of this coal will always secure for it a ready market, and there can be no doubt that the demand will always be equal to the capacity of the road. Already has this trade been a source of lucrative traffic, and contributed not a little to the success of the road before the western connexions, upon which complete success was predicated, could be formed. But for this traffic the credit of the company could have hardly been maintained, at a point necessary to secure the requisite means for its prosecution to the Ohio river.

Baltimore and Susquehanna railroad and its connexions.—The next great line of public improvement in Maryland is the Baltimore and Susquehanna railroad, by which that city secures a communication

with the country lying to the northwest, and with the public works of the State of Pennsylvania, as she will ultimately with those of New York. As far as distance is concerned, the city of Baltimore occupies as favorable a position in reference to the public works of Pennsylvania, and the various lines of improvement connecting with them, as does the city of Philadelphia; the former being only 82 miles from Harrisburg, while the latter is 107 miles. Such being the fact, Baltimore is making the most vigorous efforts to perfect and extend the works by which these important communications are maintained. She is especially occupied in pushing a line up the Susquehanna river, with a view to its extension to Elmira, the most considerable town on the Erie railroad between Lake Erie and the Hudson. This town is also connected with all the railroads running through central New York, with Lakes Erie and Ontario at various points, and by a water-line with the Erie canal. By reaching this point, the Baltimore lines of improvement will be brought into direct connexion with the New York system of public works, which have thus far monopolized the interior trade of the country. To divert this trade from its accustomed channels, and to turn a portion of it at least to Baltimore, is one great object that induces her to lend her aid to the Susquehanna road in Pennsyl-

vania, through which this object is to be effected.

The trunk of this great line is the Baltimore and Susquehanna railroad, which extends from Baltimore to York, Pennsylvania, a distance of 56 miles. In its original construction it received important aid from the State. It has not been a successful work, in a pecuniary point of view, owing to a faulty mode of construction and to the want of suitable connexions on the north. But these drawbacks to its success have been removed, and its business prospects are now rapidly improving. From York it is carried forward to Harrisburg, by means of the York and Cumberland road. Beyond this point no railroad has been constructed up the Susquehanna valley. It is the construction of this link that is occupying the especial attention of the city of Baltimore, and toward which, in addition to private subscriptions, she has extended aid in her corporate capacity to the amount of \$500,000. The distance from Harrisburg to Sunbury, the route occupied by the Susquehanna company, is about 50 miles. From Williamsport to Elmira the distance is about 75 miles. A portion of this last-named link is in operation; and should the road from Williamsport to Ralston be adopted, as a part of the through route, it will require only the construction of some 20 miles to complete the last-named link. Vigorous measures are in progress for the commencement of operations upon the unfinished portion of the above line, and the whole will be completed, as soon as this can be done, by a prudent outlay of the means that can be made applicable to the work.

When the works in which the city of Baltimore is now engaged shall be completed, she will occupy a favorable position, as far as her proximity to the great interior centres of commerce is concerned. She will probably be on the shortest route between the great northern cities and Cincinnati-she will be nearer to Buffalo than even New York or Boston. She expects to realize in results the strength of her position in the abstract. Assuming cost of transportation to be measured by lineal distance, how far the result will justify her expectations remains to be seen; at all events, she is certain to be amply repaid for all her efforts, by the local traffic of the country traversed by her lines of railroads, which will increase largely her present trade, by developing the resources of the section of country legitimately belonging to her.

The next most important line of road in Maryland is the Washington branch of the Baltimore and Ohio railroad. This forms a part of the great coast line, extending from the eastern boundary of Maine to Wilmington, North Carolina. Its traffic is chiefly derived from passengers. It is, besides, situated too near the navigable waters of the Chesapeake to command much more than local freight. As a connecting link in the great national line referred to, it occupies a position that must always

secure to it a profitable traffic.

Chesapeake and Ohio canal.—This great work was projected with a view to its extension to the Ohio river at Pittsburg. The original route extended from Alexandria, up the Potomac river, to the mouth of Wills creek, thence by the Youghiogeny and Monongahela rivers to Pittsburg. Its proposed length was 341 miles. It was commenced in 1828, but it was only in the past year that it was opened for business to Cumberland, 191 miles. Towards the original stock \$1,000,000 was subscribed by the United States, \$1,000,000 by the city of Washington, \$250,000 by Georgetown, \$250,000 by Alexandria, and

\$5,000,000 by the State of Maryland.

From the difficulties in the way of construction, the idea of extending the canal beyond Cumberland has long since been abandoned; and though when originally projected, it was regarded as a work of national importance, it must now be ranked as a local work, save so far as it may be used in connexion with the Baltimore and Ohio railroad, as a portion of a through route to the Ohio. In this manner it bids fair to become a route of much general importance. As a very large coal trade must always pass through this canal, the boats will take return freights at very low rates, in preference to returning light. It is proposed to form a line of steam propellers from New York to Baltimore, for the transportation of coal; and it is claimed that the very low rates at which freights between New York and Cumberland can be placed by such a combination, will cause the canal, in connexion with the Baltimore and Ohio railroad, to become a leading route between New York and the West.

The canal is a work of great capacity, having six feet draught of water, and allowing the passage of boats of 150 tons burden. As it commands the whole water of the Potomac river, it will always be

abundantly supplied with water.

This canal has encountered so many discouraging reverses as to cause a general distrust as to its ultimate success. It is believed, however, that it will not only become very important as a carrier of the celebrated Cumberland coal, but that it will, in time, work itself, in connexion with the railroad, into a large through-business between the eastern and the western States, in the manner stated.

VIRGINIA.

Population in 1830, 1,211,405; in 1840, 1,239,797; in 1850, 1,421,661.

Area in square miles, 61,352; inhabitants to square mile, 23.17.

The State of Virginia is the birth-place of the idea of constructing an artificial line for the accommodation of commerce and travel between the navigable rivers of the interior and tide-water. It is now nearly one hundred years since a definite plan for a canal from the tide-waters of Virginia to the Ohio was presented by Washington to the House of Burgesses of Virginia, and ever since that time the realization of this project has been the cherished idea of the State.

The central position of Virginia, her unsurpassed commercial advantages, afforded by the deep indentations of her numerous bays and rivers, and the near approach toward each other, in her own territory, of the Ohio and the navigable waters of the Chesapeake, all pointed out this State as the appropriate ground for a connexion between the two. To the apparent facility with which this could be formed, and to the advantages anticipated from it, is to be attributed the hold which this project has always maintained upon the public mind of the State.

James River and Kanawha canal. The great work by which this connexion has been sought to be accomplished is the James River and Kanawha canal, to extend from Richmond to the navigable waters of the Great Kanawha, at the mouth of the Greenbrier river, a distance of about 310 miles. This work is now completed to Buchanan, in the valley of Virginia, a distance of 196 miles, and is in progress to Covington, a town situated at the base of the great Alleghany ridge, about thirty miles farther. It was commenced in 1834, and has cost, up to the present time, the sum of \$10,714,306. The extension of this water line to the Ohio is still considered a problem by many, though its friends cherish the original plan with unfaltering zeal. The work thus far has scarcely realized public expectation, from the difficulties encountered, which have proved far greater than were anticipated in the outset, and have materially delayed the progress of the work. The canal follows immediately on the bank of the river, which has a rapid descent, and, after entering the Alleghany ranges, assumes many of the characteristics of a mountain stream. This fact has compelled the construction of numerous and costly works, such as dams, culverts, and bridges, and subjects the canal to all the dangers of sudden and high floods, from which it has at several times suffered severe losses. But, so far as the canal has been carried, all obstacles have been surmounted. The various works upon it have now acquired a solidity that promises to resist all the trials to which they may hereafter be subjected. The crossing of the crest of the Alleghanies, the most difficult portion of the whole line, has not been commenced. at the most favorable point of crossing is 1,916 feet above tide-water, or 1,352 feet above the highest point upon the Erie canal; which is at the lake at Buffalo. Elaborate surveys and calculations have been made for the purpose of determining whether a sufficient quantity of water can be obtained for a supply at the summit, and the result seems to favor an affirmative opinion.

Could this canal be carried into the Ohio valley, with a sufficient

supply of water, there can be no doubt it would become a route of an immense commerce. It would strike the Ohio at a very favorable point for through business. It would have this great advantage over the more northern works of a similar kind, that it would be navigable during the winter as well as the summer. The route, after crossing the Alleghany mountains, is vastly rich in coal and iron, as well as in a very productive soil. Nothing seems to be wanting to the triumphant success of the work but a continuous water line to the Ohio. Until this is accomplished, the canal must depend entirely upon its local business for support. Its eventual success as a paying enterprise was predicated upon such accomplishment. Though of great benefit to the contiguous country and to the city of Richmond, it does not promise in its present condition to be profitable to the stockholders.

Railroads in Virginia.

Central railroad.—The object which led to the conception of the James river and Kanawha canal is now the ruling motive in the construction of the two leading railroad projects of this State, viz: the Virginia Central and the Virginia and Tennessee railroads. While the canal is still the favorite project with an influential portion of her citizens, it cannot be denied that, sympathizing with the popular feeling in favor of railroads, which have in many cases superseded canals as means of transportation, and which are adapted to more varied uses and better reflect the character and spirit of the times, a large majority of the people of the State deem it more advisable to open the proposed western connexions by means of railroads than by a farther extension of the canal.

The line of the Central road, after making a somewhat extended detour to the north upon leaving Richmond, takes a generally western course, passing through the towns of Gordonsville and Charlottesville, and enters the valley of Virginia near Staunton. At Gordonsville it connects with the Orange and Alexandria railroad, thus giving the former an outlet to the Potomac. This road is now nearly completed to Staunton, with the exception of the Blue Ridge tunnel, which is a formidable work about one mile in length, and is in process of construction by funds furnished by the State. From Staunton the line has been placed under contract to Buffalo Gap, a distance of thirty-five miles. For the

whole line up to this point, ample means are provided.

The whole length of the road, from Richmond to the navigable waters of the Kanawha, will be about two hundred and eighty-six miles. The means for its construction have thus far been furnished by stock subscriptions on the part of the State and individuals, in the proportion of three-fifths by the former to two-fifths by the latter. No doubt is entertained of its extension over the mountains, at a comparatively early period. The State is committed to the work, and has too much involved, both in the amount already expended and in the results at stake, to allow it to pause at this late hour. The opinion is now confidently expressed by well-informed persons that some definite plan will

be adopted for the immediate construction of the remaining link of this

great line.

By extending this line to Guyandotte a junction will be formed with the roads now in progress in Kentucky, and aiming at that point for an eastern outlet. It is also proposed to carry a branch down the Kanawha to its mouth, nearly opposite to Gallipolis, to connect with a road proposed from that point to intersect with the Hillsboro and Cincinnati and the Cincinnati and Marietta railroads.

Virginia and Tennessee railroad.—The leading object in the construction of the above road is to form a part of a great route connecting the North and the South, by a road running diagonally through the United States. This line, commencing in the eastern part of the State of Maine, follows the general inclination of the coast, and passes through our most important eastern cities, as far south as Washington. reaching this point, it still pursues the same general direction, and passing through Charlottesville and Lynchburg, in central Virginia, and soon after leaving the latter place, enters the lofty ranges of the Alleghany mountains, which it traverses for hundreds of miles, till they subside into the plains circling the Gulf of Mexico. The northern portion of this great line is in operation from Waterville, Maine, to Charlottesville, Virginia, a distance of nearly 800 miles. Parts of the southern division are completed, and the whole, with the exception of the short link from Charlottesville to Lynchburg, is in active progress. Of the central links, the Virginia and Tennessee is the longest, and in this point of view the most import-It extends from Lynchburg to the State line of Tennessee, a distance of 205 miles. About 60 miles of this road are completed, and the whole line is under contract for completion during the year 1854. The means for its construction are furnished jointly by the State and individual subscriptions, in the proportion of three parts by the former to two by the latter. When completed, this road will form a conspicuous link in one of the most magnificent lines of railroad in the world, both as regards its length and importance.

The prospects of the local business of the above road are favorable. It traverses a fertile portion of Virginia, abounding, moreover, in most of the valuable minerals, such as iron, coal, lead, salt, etc. At present, there is no more secluded portion of the eastern or middle States than the country to be traversed by the above road; all its great resources remain undeveloped, from the cost of transportation to a market. When this road shall be opened, no section will display more progress,

nor furnish, according to its population, a larger traffic.

The friends of this project propose also to make a portion of its line the trunk of a new route, from the navigable waters of the Ohio to those of the Chesapeake. At a distance of about 75 miles from Lynchburg, the Virginia and Tennessee road strikes the great Kanawha near Christiansburg. From this point to the navigable waters of the river the distance is only 86 miles. As the Virginia and Tennessee road is to be connected by railroad with both Richmond and Petersburg, the short link described will alone be wanting to constitute a new outlet for western produce to tide-water. That this link must be supplied at no distant day, can hardly admit of a doubt. Should the State extend aid to it, as well as to the Central line, both may be opened simultaneously.

There are numerous other important lines of railroad in Virginia, among which may be named the line running through the State from north to south, made up of the Richmond, Fredericksburg and Potomac, Richmond and Petersburg, and Petersburg and Weldon roads; the South Side, the Richmond and Danville, the Seaboard and Roanoke, the Orange and Alexandria, and the Manasses Gap railroads.

The first-named line forms the great route of travel through the State from north to south. Its revenues are chiefly derived from passenger traffic; its direction not being favorable to a large freight business. The whole line is well managed and productive, and is daily improving in value, from the extension of both extremes of the great system

of which this is the connecting link.

The South Side and the Richmond and Danville roads are works of importance, from the extent of their lines, the connexions they form, and their prospective business. Starting from two, the most considerable, towns in eastern Virginia, situated at the head of navigation on two important rivers, they cross each other diagonally about midway between their respective termini, thus giving a choice of markets to the country traversed by either. The former constitutes the extension eastward of the Virginia and Tennessee line, and opens an outlet for that work to Richmond and Petersburg. The latter will also secure to the same cities the trade of important portions of southern Virginia and North Carolina, and will undoubtedly be extended eventually into the latter State, and form a junction with the North Carolina railroad, at or near Greensboro, forming, in connexion with the North Carolina and Charlotte and South Carolina railroads a new and independent interior route between Richmond and Petersburg and the southern States.

The Seaboard and Roanoke railroad is also a line of much consequence, and may eventually become a work of great importance, depending, however, upon the future progress of Norfolk, its eastern terminus. The excellence of the harbor of Norfolk has led to great expectations in reference to the future growth of that city. Its position has been compared with that of New York, and it bears a relation to the Chesapeake bay, and the rivers entering it, similar to that of the former to the Hudson river and Long Island Sound. No portion of the country possesses greater commercial capabilities than eastern Virginia, and it would seem that the numerous rivers by which it is watered would develop a trade sufficient to build up a large commercial town. Such has not been the result, however inexplicable the cause.

The great seats of commerce lie farther north, and the seaports of Virginia, instead of being depôts from which are distributed to the consumers the products of the State, are merely points en route to the great northern markets. Her people being devoted chiefly to agriculture, no large towns have grown up within her territory. Should, in time, a greater diversity of pursuits secure the consumption, by her own people, of the surplus products of her soil, Norfolk could not fail to become an important commercial town. The Seaboard and Roanoke road would be her great arm of inland communication, combining, as it does, with the roads penetrating the interior of the State,

and of North Carolina. As it is, it is a road of much consequence, and essential to the symmetry of the railroad system of the State, and will always transact a large business, even under a continuance of the

present condition of things in the State.

The other leading roads in Virginia are the Orange and Alexandria and the Manasses Gap railroads. The former extends from Alexandria to Gordonsville, on the Central road, a distance of about 90 miles. It is an important line, in that it connects the central portions of the State with the Potomac and the cities of Alexandria and Washington. It will form a portion of the line already described, traversing central and western Virginia and eastern Tennessee. To complete such a connexion, only a short link, extending from the central road near Charlottesville, is necessary. There cannot be a doubt that the legislature of Virginia will allow the construction of this link, and aid it with the liberality extended toward similar works.

The Manusses Gap road branches off from the Orange and Alexandria road about 25 miles after leaving Alexandria, and is to be extended into the valley of Virginia through the gap in the Blue ridge above named. A portion of the line is already in operation. It is intended to carry this road up the valley to Staunton; there to form a junction with the Central line. The Winchester and Potomac road, at present a short though productive local work, will also probably be extended so as to connect with the above road—thus forming a line through the whole extent of the valley of Virginia, and connecting with the Baltimore and Ohio road at Harper's Ferry, and with the

Potomac at Alexandria.

NORTH CAROLINA.

Population in 1830, 737,987; in 1840, 753,419; in 1850, 868,903. Area in square miles, 45,000; inhabitants to square mile, 15.62.

Railroads in North Carolina.

The State of North Carolina has, on the whole, accomplished less than any eastern State in railroad enterprises, when we take into consideration the extent of her territory, and the great necessity for such works to the proper development of her resources. Her inaction has been owing in part to the want within her own territory of a large commercial town, which in other States not only becomes the centre of a well-digested system of railroads, but, by concentrating the capital,

renders it available to the construction of such works.

Of the roads in operation the most important is the Wilmington and Weldon road, extending from Wilmington to Weldon, and traversing nearly the whole breadth of the State from north to south. This is a work of the greatest convenience and utility to the travelling public, and must, from its direction and connexion, always occupy an important position in our railroad system. It is a road of comparatively low cost, upon a very favorable route, and is beginning to enjoy a lucrative traffic. It has been an unproductive work from the faulty character of its construction—it being one of the pioneer works of the South, and

originally laid with a flat bar; but this superstructure has given place to a heavy rail, and the road is now in a condition to compare favora-

bly with our best works.

The only other road in operation in the State is the Raleigh and Gaston, which connects the above places by a line of 87 miles. It is strictly a local work, and, from the faulty character of its construction, has been unsuccessful. It bids fair, however, to become a much more important road from its prospective connexion with the North Carolina Central road, now in progress. When the last-named road shall be opened, and the Raleigh and Gaston shall have received an improved superstructure, it cannot fail, it is believed, to become a productive work, and one that will sustain an important relation to the travel and business of the country. Through the Central, it will be brought into communication with the Charlotte and South Carolina road, and form, for both, their trunk lines north.

The only considerable work in progress, lying wholly within the State, is the North Carolina Central railroad. It commences on the Neuse river, near Goldsboro', taking a northwesterly direction, running through the towns of Raleigh, Hillsboro', Greensboro', and Lexington, to Charlotte. For the greater part of its line it traverses a fertile territory, and will secure railroad accommodations to a large and rich section of the State. It will prove of great utility, and is much wanted to develop the resources of the State, and demonstrate its capacity to supply railroads with a profitable traffic. Its entire length is 223 miles. At Charlotte it will unite with the Charlotte and South Carolina railroad, which will insure to it the character and advantages of a through-route. The estimated cost of the road is about \$3,000,000; of which sum the State furnishes \$2,000,000. The whole line is under contract, to be completed at the earliest practicable moment.

SOUTH CAROLINA.

Population in 1830, 581,185; in 1840, 594,398; in 1850, 668,507. Area in square miles, 24,500; inhabitants to square mile, 27.28.

South Carolina Railroads.

This State furnishes a good illustration of the correctness of the previous remarks, in reference to the influence of a commercial capital in promoting and giving character to works of internal improvement for the country dependent upon it. Large cities collect together the surplus capital of the surrounding country, and a mercantile life trains men up for the management of enterprises calling for administrative talent, and involving large moneyed operations.

No sooner had the people of this country commenced the construction of railroads, than the city of Charleston entered upon the great work of that State—the South Carolina railroad. This was one of the first projects of the kind undertaken in this country, having been commenced in 1830. Its main trunk extends from Charleston to Hamburg, on the Savannah river, opposite Augusta, Georgia. It has two branches; one extending to Columbia, the political capital of the State, and the other to Camden. The entire length of the road

and its branches is 242 miles. Its cost has been a little less than \$7,000,000.

This road not only bears an important relation to all the interests of the State, but has given birth to other extensive lines of road, and

forms very important connexions with them.

At Augusta a junction is formed with the Georgia railroad, by means of which a communication is opened with the railroads of that State, which are soon to be extended to all the neighboring States. Already have the Georgia lines reached the Tennessee river; and by the first of May next, they will be carried forward to Nashville, the capital of the State of Tennessee, whence railroads are in progress toward Louisville and Cincinnati. From Atlanta, the western terminus of the Georgia railroad, a line of railroad is nearly completed to Montgomery, Alabama, which will soon be pushed forward to the Gulf of Mexico on the one hand, and to the Mississippi on the other.

By means of the Tennessee and Kentucky roads alluded to, Charleston is now about to realize the celebrated project of the Charleston and Cincinnati railroad. The history of this scheme is well known. originated in the bold idea of making that city the commercial emporium of the great interior basin of the country, particularly the lower portion of it. To effect this object, a continuous line of railroad, under one organization, was proposed, in as direct a line as possible, to the city of Cincinnati. This project attracted, for a time, much interest in the States of South Carolina, Tennessee, Kentucky, and southern Ohio. It was believed to be entirely practicable, and large sums were expended in reconnaissances and surveys of the routes. We now see the accomplishment of the scheme, upon the original plan, to have been, at the period when it was commenced, impracticable. As far as the means and the engineering skill of the country were concerned, the project was premature. Its magnitude was beyond the ability of all the interests that could be brought to bear upon it. The termini being given, the route assumed was the shortest possible line between them. The route selected, therefore, could not command the means of the country, applicable to a road between the cities named; and, as might have been expected, the original project fell through. The different sections, however, upon the most practicable line, as far as means were concerned, commenced the construction of detached links, having in view local objects alone. These are now so far advanced that the formation of the whole line may be regarded as secured.

By the more circuitous route by way of Nashville and Louisville, the means for a railroad from Charleston to Cincinnati are now provided, and the whole route is either in operation or in progress. From Charleston to Nashville, a distance of about 600 miles, the line will be completed by the first day of May next. Upon the line from Nashville to Louisville, a distance of 180 miles, working surveys are now in progress, preparatory to placing this entire link under contract. Louisville and Cincinnati are soon to be united by means of the Louisville and Lexington and the Covington and Lexington railroads. The former is in operation; the latter will be completed next year; and the city of Charleston, without any expenditure other than that requisite for the construction of roads within her territory—excepting a small

loan to the Nashville and Chattanooga road—sees the great project, for which she so zealously labored, on the eve of accomplishment.

A more direct, and apparently appropriate line, than that above described, is one traversing the entire length of the State of South Carolina, in a northwesterly direction, crossing the northeastern corner of Georgia and the western portion of North Carolina, running down the Little and up the Great Tennessee rivers, to Knoxville; thence by the Cumberland Gap, or some practicable pass in its vicinity, through Danville and Lexington, Kentucky, to Cincinnati. The only portions of this line for which the means are certainly provided, are those extending from Charleston to Anderson, in South Carolina, a distance of 243 miles, and from Cincinnati to Danville, a distance of 128 miles, making in all 371 miles, and leaving about 350 miles to be provided for. this direct line will be accomplished, cannot be doubted. A considerable portion of the country traversed can provide sufficient means for its construction, and the necessary balance will be supplied by connecting lines and by private interests. For that portion of the link, unprovided for, between Anderson and Knoxville, it is believed that the legislature of the State of South Carolina will extend liberal aid. The South Carolina and the Greenville and Columbia roads, forming the lower portions of this great chain, are also expected to render efficient support. That portion of it through the State of Tennessee will undoubtedly receive the benefit of the recent internal improvement act of that State, which appropriates \$8,000 per mile to certain leading lines—a sum sufficient, with what private means can be obtained, to secure its construction. The link from Danville, Kentucky, to the boundary line of Tennessee, traverses a region of vast mineral resources. It is believed the amount lacking to complete this link, beyond the means of the people upon it, will eventually be furnished by parties interested in the whole as a through route. Active measures are in progress upon the entire route to secure the necessary surveys, to provide the means of construction, and to awaken the minds of the people to the importance of the work.

The other important projects in South Carolina are the Greenville and Columbia, the Charlotte and South Carolina, the Wilmington and Manchester, and the Northeastern road, extending from Charleston to a junction with the Wilmington and Manchester road. The Charlotte and South Carolina and the Wilmington and Manchester roads lie partly in North Carolina, but they are appropriately described as a portion of the

South Carolina system.

The Greenville and Columbia road extends from Columbia, the terminus of the Columbia branch of the South Carolina railroad, to Greenville, a distance of about one hundred and twenty-three miles. It has two branches—one extending to Pendleton, and the other to Anderson court-house. The leading objects in its construction are of a local character; though, as before stated, it is intended to make it a portion of a through-line to the Mississippi Valley. The road traverses one of the best portions of the State. It has been built at a low cost, owing to the favorable nature of the country traversed, and the enterprise promises to be highly remunerative. A considerable portion of this line is in operation, and the whole will be completed at an early day.

There is in progress from this road a branch of some magnitude ex-

tending to Laurens, and a portion of it is in operation.

The Charlotte and South Carolina railroad has been briefly alluded to. Its line extends from Charlotte, the most important town in western North Carolina, to Columbia, the capital of South Carolina, and is about one hundred and ten miles long. It is an important link between the other roads of the States, and, with them, between those of the northern, southern, and southwestern States. Its local business will be lucrative, as it traverses a rich country without suitable avenues to market. Like most of the southern roads, it has been constructed at a low cost. It is nearly completed, and will be shortly opened.

Connected with this road at Chester is a branch road, called the King's Mountain railroad, in operation and extending to Yorkville, a

distance of about twenty-five miles.

Wilmington and Manchester railroad.—The chief object of this line is to supply the link for the connexion of the roads of the States of South Carolina and Georgia with those of the north. It is this object which gives it general importance, though its principal revenues will undoubtedly be derived from local traffic, which the country traversed will probably supply. The road is about one hundred and sixty-two miles long. Its construction is essential to the convenience of the travelling public, and will add largely to the traffic of all the connecting lines. A glance at the accompanying map will well illustrate its relations to other roads. Although a first-class road, it is constructed at the minimum cost of southern roads. The whole line is under contract and well advanced; some portions of it are opened, and the whole is in progress to completion with all practicable despatch.

The only project of any considerable public importance, not already noticed, is the Northeastern road, extending from Charleston to the Wilmington and Manchester road, at a point between Marion and Darlington. The object of this road is to secure to Charleston a more direct outlet, and to place her in the line of travel between the North and the South. Without such a work, the tendency of the Wilmington and Manchester road would be to divert the through travel from that city, and would consequently threaten her with the loss of a portion of her business, and public consideration. To fortify her position, this city also proposes to construct a railroad direct to Savannah. By these works she will place herself on the convenient line of travel between

the extremes of the country.

The length of this first-named line will be about one hundred miles. Its cost will be between \$1,500,000 and \$2,000,000. The work is light, the only difficult point being the crossing of the Santee river. The route is now under survey, and will be commenced as soon as practicable. The road may be regarded as a Charleston project, and that city will contribute largely to its construction.

GEORGIA.

Population in 1830, 516,823; in 1840, 691,392; in 1850, 905,999. Area in square miles, 58,000; inhabitants to square mile, 15.62.

The State of Georgia has distinguished herself for the extent, excel-

lence, and successful management of her railroads. In these respects she ranks first among the southern States. Her success is mainly owing to the fact, that her great lines of railroad were completed within a comparatively brief period after they were undertaken. From the sparse population in the South, and the absence of large towns in the interior, the completion of a road is necessary to success. Until the connexions proposed are formed, the work is generally unprofitable. Successive links, as they are opened, do not yield a large revenue, as is the case with many northern lines, which find between two neighboring villages a remunerating traffic. To this fact is, in some degree, to be attributed the failure in the South of many of the projects of 1836 and 1837. Portions only of the lines of railroad commenced at that period, were completed. The commercial revulsions which followed checked their further prosecution. The several links brought into use were not of sufficient length or importance to develop and command a remunerative business; and, in some intances, projects were abandoned even after a portion of their lines had been opened for business. The reverses which have been alluded to, were chiefly confined to the projects of the newly-settled southern and western These States were then a wilderness as compared with their present condition. At that period success was impossible, not only from the lack of capital adequate to the enterprises, but of those qualities necessary to superintend and carry out these enterprises, and which can only result from experience. The effect of the reverses sustained, was to discourage for a time all attempts to construct railroads. But the long period which has since elapsed has brought with it greater means; a wider experience; the successful examples of other States; more distinct and better-defined objects; and a more intimate acquaintance, and hearty co-operation among people interested in such works. The operation of time has settled our commercial depôts, and established the convenient channels of commerce and travel. At an earlier period these were assumed in the projects undertaken, and the results frequently proved these assumptions to be wide of the truth. New lights have arisen as guides to renewed efforts. The southern people are again inspired with confidence and hope; and the movement now going on throughout the southern States, founded upon a proper knowledge of their wants and abilities, and guided by wider experience and more competent hands, is destined to achieve the most satisfactory results.

The success of the Georgia roads, as already stated, was owing to the fact that, after a severe struggle, her leading lines were completed without great delay. As soon as they were brought into use they at once commenced a lucrative business, yielding a handsome return upon the cost, and have proved of inestimable benefit to the people of the State. Their roads have not only enabled them to turn their resources to the best account, but have done much to develop that spirit of enterprise and activity for which the people of Georgia are

particularly distinguished.

The leading roads in operation in Georgia constitute two great lines, representing, apparently, two different interests. The first extends from Savannah, the commercial capital of the State, to the Tennessee

river, a distance of 434 miles, and is made up of the Georgia Central, Macon and Western, and Western and Atlantic roads. The latter, by which the railroad system of the State is carried into the Tennessee valley, is a State work. The second line traverses the State from east to west, crossing the other nearly at right-angles, and is made up of the Georgia and the Atlanta and La Grange railroads. This line may be considered as an extension, in a similar direction, of the South Carolina railroad, and rests on Charleston as its commercial depôt, as does the former on Savannah. To a certain extent the Western and Atlantic link may be said to be common to both lines. The first-described line, however, has important branches, which connect it with a much larger portion of the State than the latter. At Macon it receives the Southwestern railroad, an important line, already constructed to Oglethorpe, which will be continued to Fort Gaines, on the Chattahoochee. A branch of this line is in progress to Columbus, an important town on that river, and the principal depôt of trade for western Georgia and eastern Alabama. Upon the completion of these roads the Central line will extend to the northern and western boundaries of the State, and will receive an important accession to its already flourishing traffic.

The three great roads of the State, which have been in operation for a comparatively long period—the Central, the Georgia, and the Macon and Western—have, for many years past, been uniformly successful, and take high rank among our best-managed and best-paying roads, averaging, for a series of years, eight per cent. dividends. Notwithstanding their imperfect mode of construction, which has required repairs equal to an entirely new superstructure, their cost per mile is less than the average of roads throughout the country. This is owing in part to the favorable character of the country for such enterprises, and the prudent and skilful manner in which they have been constructed and managed. All these have proved profitable works, chiefly from their local traffic. The rapid extension of connecting-links, which must use the above as their trunk lines to market, must, in the ordinary course of business, add very largely to their present considerable revenues.

Among the most important roads in progress in the State, may be named the Waynesboro, the Southwestern, the Muscogee, and the Atlanta

and La Grange.

The object of the Waynesboro road is to effect a communication, by railroad, between Savannah and Augusta, the latter the terminus of the South Carolina and Georgia railroads, and situated at the head of navigation on the Savannah river. A portion of this line is already in operation, and the whole is nearly completed. It is an important connecting-link between other roads, and will greatly add to the facilities of business and travel in the southeastern portion of the State.

The Southwestern road will provide an outlet for the rich planting district of southwestern Georgia, one of the best cotton-growing regions in the South. This road has already reached Oglethorpe, and is to be extended to the Chattahoochee. It will then have an outlet in each direction of trade. The proposed extension of the road is regarded as the appropriate line to supply railroad accommodation to the south-

western portion of the State. The Southwestern is already in possession of a large revenue from local traffic alone. This will be materially increased by the farther extension of its own line, and of connecting roads.

The Muscogee road extends from the city of Columbus, eastward, to its junction with the Southwestern, a distance of 71 miles, striking the latter about Fort Valley, 28 miles from Macon. It traverses a rich planting country, and is an important work, both as a through and local road. At Columbus it will ultimately form a connexion with the roads now in progress and operation in Alabama. Its through traffic, derived from the business centring at Columbus alone, will constitute a valuable source of revenue. It is nearly completed, and its opening is regarded as an event of considerable importance to other roads in the State.

The Atlanta and La Grange bears pretty much the same relation to the Georgia as does the Muscogee to the Central line. It extends from Atlanta, the terminus of the Georgia and Western and Atlantic roads, to West Point, the eastern terminus of the Montgomery and West Point road, a distance of 86 miles. A portion of this road is already in operation, and the whole is well advanced. Its completion will extend the Georgia system of roads to Montgomery, Alabama. As a connecting link, it is justly regarded as a work of much public utility. It traverses a very beautiful and highly cultivated portion of the State, and cannot fail to have, with all the roads of the State, a lucrative local traffic.

The only important road in Georgia already in operation, and not particularly noticed, is the Western and Atlantic, extending from Atlanta to the Tennessee river. To the State of Georgia must be awarded the honor of first surmounting the great Alleghany or Appalachian range, and of carrying a continuous line of railroad from the seacoast into the Mississippi valley. From the difficulties in the way of such an achievement, it must always be regarded as a crowning work. Wherever accomplished, the most important results are certain to follow. The construction of the Western and Atlantic road was the signal for a new movement throughout all the southern and southwestern States. By opening an outlet to the seaboard for a vast section of country, it at once gave birth to numerous important projects, which are now making rapid progress, and which when completed will open to the whole southern country the advantages of railroad transportation. Among the more important of these may be named the Memphis and Charleston, the East Tennessee and Georgia, and the Nashville and Chattanooga roads, already referred to. will open a direct line of railroad from Memphis, an important town on the Tennessee river, to the southern Atlantic ports of Charleston and Savannah, and will become the trunk for a great number of important radial branches. The Nashville and Chattanooga, traversing the State of Tennessee in a northwesterly direction, has given a new impulse to the numerous railroads which are springing into life, both in Tennessee and Kentucky. These railroads will soon form connexions with those of Ohio, Indiana, and Illinois, and thus all the northern and western States will be brought into intimate business relations with the southern cities of Charleston and Savannah. Through the East Tennessee and Georgia road a connexion will be formed with the line traversing the United States from north to south. The influence of such a connexion upon the growth and prosperity of these cities, as well as of the country brought into communication with them, can

hardly be estimated.

A railroad is also proposed from St. Simon's sound, on the Atlantic—said to be a good harbor—to Pensacola, in Florida. One object in the construction of this road is to build up the town of Brunswick upon that sound. As this road would connect two good harbors, one upon the Atlantic coast and the other upon the gulf, it will prove an important work. It would also open an extensive territory at present but slightly developed, for the want of a suitable outlet.

A railroad is contemplated from Savannah to Pensacola. Its object is to open a communication between that city and the southern portion of the State, and to attract the trade of a large section now threatened to be drawn off by rival works. The project has its origin in the supposed benefit it would confer upon the city of Savannah, which is ex-

pected to aid largely in its construction.

FLORIDA.

Population in 1830, 34,730; in 1840, 54,477; in 1850, 87,401. Area

in square miles, 59,268; inhabitants to square mile, 1.47.

In another part of this report full notice is given to this State, embracing the works of internal improvement therein, whether constructed, in progress, or contemplated to be made, and also those heretofore made and now abandoned. It would be superfluous to repeat that notice here. Reference is made, therefore, to the communications of citizens of this State, contained in the Appendix at the end of this report, to the documents accompanying the same, and to comments of the undersigned, prefixed thereto, for full information on these and other subjects respecting this State. A paper respecting the "Gulf of Mexico" and the "Straits of Florida," prepared from notes furnished by a distinguished and intelligent engineer officer of the United States, is likewise inserted in the Appendix, and contains important matter relating to this State.

ALABAMA, MISSISSIPPI, AND LOUISIANA.

The roads of these States belong to a general class, from the similarity of their direction and objects, and from the intimate relations existing between many of their important lines. As already stated, the great lakes are the radial points of the internal improvement system of this country. In conformity with this fact we find, that on reaching the Gulf of Mexico the general direction of the great lines extending into the interior gradually changes, in harmony with this fact, and that those arising from the Gulf of Mexico are at right-angles both to this and our great northern lake boundary.

In examining the character and prospective business of roads running at right-angles to the parallels of latitude, compared with those following the same parallels, some marked points of difference are found. In

the latter case, where there is no variety of pursuits, and where the whole population is engaged in agriculture, there can be little or no local traffic. The products being identical, all the surplus is the same in kind. But upon a route following a meridian of longitude, an entirely different Such routes traverse regions abounding in a diversity rule prevails. of productions, all of which are regarded as essential to the wants of every individual in the community. Such lines may be said to coincide with the natural routes of commerce, over which a large traffic must always pass, although the territory traversed may be entirely devoted to agriculture. The grains, provisions, and animals of the north are wanted by the southern States engaged in the culture of cotton, rice, sugar and tobacco; and these last-named products are received by the people of the north in exchange for what they have to sell. country, therefore, the routes running east and west may be termed the artificial, those running north and south the natural routes of commerce. It is this fact that gives particular importance to the great line of communication which it is proposed to extend from the Gulf of Mexico to the lakes, thus uniting a country the extremes of which abound in the fruits of the tropics, and in the products of high northern latitudes.

A railroad extending from the Gulf of Mexico constitutes a great national route of commerce, and furnishes a channel of distribution over the whole country, for the vast variety of products of the regions traversed, and at the same time constitutes an outlet for such surplus as may not be required for domestic consumption. Such are the extent and range of human wants, that they require the whole aggregate production of every variety of soil and climate for their supply. to the variety of climate, this country is capable of producing nearly every article used in ordinary consumption, and an abundance of all that are of primary importance. Upon the completion of a railroad from the Gulf of Mexico to Lake Michigan, a person living midway between the two will be enabled to have his table daily supplied with the luxuries of both extremes—the delicious fruits of the tropics, and the more tempered but equally valuable products of northern latitudes. The differences of climate will then, practically, cease to exist The speed of the railway train will scatter over the whole country, freshly plucked, the fruits of every latitude, and one climate will practically exist for all, in the possession of an abundance of the products of each.

Extended lines of railroads are equally important in another point of view. It always happens that while in the aggregate there is an abundance of production for the wants of all, there will be failures of crops in different portions of the country. Such must be the case in a country of so vast an area as our own. With ordinary roads only, it is found impossible so to distribute the surplus produced as to secure abundance at points where production has failed. The limit to economical transportation over the ordinary roads is measured by a few miles. The greatest extremes of want and abundance, therefore, may exist in adjoining States. All these evils are remediable by railroads, so that they will not only secure to us a practical uniformity of climate, but of seasons also, giving to us the greatest variety, and at the same time the greatest certainty, of uniform supply.

ALABAMA.

Population in 1830, 309.527; in 1840, 590,756; in 1850, 771,671. Area in square miles, 50,722; inhabitants to square mile, 15.21.

Mobile and Ohio railroad.—The first of the great works of the character we have described is the Mobile and Ohio railroad, extending from Mobile, on the Gulf of Mexico, to the mouth of the Ohio river, a distance of 594 miles. From Mobile it will be extended down Mobile bay to a point where a depth of 203 feet of water is reached at low tide, making the whole length of line 609 miles. The route traversed is remarkably favorable. There are no grades in the direction of the heavy traffic exceeding 30 feet to the mile. The highest point of elevation above the gulf is only 505 feet. No bridges are required above 130 feet long. The estimated cost of the road, with a liberal outfit, is \$10,000,000. Of the whole line, 33 miles are already in operation; but the work is in progress upon 279 more, and the balance will be immediately placed under contract. It is intended to have the whole line completed within three years from the present time. The company are fast securing ample means for its construction, which are materially strengthened by a recent liberal donation of land by the general government. That portion of the line through the State of Tennessee is provided for by the recent internal improvement act of that State. The work is under the most efficient management, and its completion within the shortest practicable period is unquestioned.

The importance of this work, both to the city of Mobile and the whole southern country, can hardly be over-estimated. By means of it the produce of the South may, with the greatest expedition, be brought alongside of ships drawing 20% feet water. The route traversed is nearly equidistant from the navigable waters of the Tombigbee river on the one hand, and the Mississippi on the other. It traverses a region deficient in any suitable means of transportation—one of the richest portions of the United States. Flanking, as it will, a very large portion of the best cotton lands in the country, it must secure to Mobile a large supply of this article, ordinarily sent to New Orleans. From the ease and cheapness with which the planter will be enabled to forward his staple to market, the road will stimulate the production of cotton to an extraordinary extent. It will also develop numerous other resources now lying dormant, and will give rise to a greater variety of pursuits, so essential to the best interests of the South. This work cannot fail to give extraordinary impulse to the growth of Mobile, and to secure to it a prominent rank among the principal commercial cities.

Another great line of railroads commencing in Alabama, though at present resting upon the Alabama river at Selma, to be eventually carried to Mobile, is the Alabama and Tennessee River railroad. The line of this road extends from Selma to the Tennessee river at Gunter's Landing, a distance of 210 miles. The more immediate object of its construction is to accommodate the local traffic of the route traversed, although a large business is anticipated from the connexions hereafter

to be formed.

It is proposed to extend this road from Jacksonville to Dalton, Georgia, to connect with the great line already described, traversing the entire country, and passing through northern Georgia, eastern Tennessee, and central and western Virginia, and to which the above road will form the southern trunk, and connect this great line with the Gulf of Mexico.

The Alabama and Tennessee railroad will also form a link in another important chain of roads, extending from the gulf to the great lakes. From Gunter's Landing, its northern terminus, it will be carried forward to the Nushville and Chattanooga road at Winchester, by the Winchester and Alabama road, now in progress. From Winchester to Nashville the Nashwille and Chattanooga road is now in operation. From Winchester two routes are proposed—one by way of Nashville and Louisville, a portion of which is in operation, and the balance amply provided for; and the other by way of McMinnville and Sparta, Tennessee, and Danville and Lexington, Kentucky. From Winchester to McMinnville a road is in progress, as is one from Cincinnati to Danville, on the northern portion of the line. The link unprovided for is about 250 miles long. The Tennessee portion of this is embraced in the internal improvement act of that State, and vigorous measures are in progress to secure the means requisite to the work, both in Tennessee and Kentucky. When these connecting lines shall be completed, the Alabama and Tennessee road will sustain the relation of a common trunk to all.

The Alabama Central railroad, commencing in the State of Mississippi, and extending to Selma, is the appropriate extension, east, of the Mississippi Southern railroad, designed to traverse the State of Mississippi centrally from west to east. This line has been placed under contract from the State line to Selma. It is proposed to extend it still farther eastward, so as to form a connexion at Montgomery with the Montgomery and West Point road. By the completion of the above work and its connecting lines, a direct and continuous railroad would be formed, extending from the Atlantic ports of Charleston and Savannah to the Mississippi river at Vicksburg, and traversing, for a greater portion of the distance, a region of extraordinary productiveness. Its importance as a through-line of travel will be readily appreciated from an examination of the accompanying map. The whole of this great line, with the exception of the link from Selma to Montgomery, which will, for the present, be supplied by the Alabama river, is in progress.

Another line of very considerable magnitude is the proposed road from Grand, a town upon the Chattahoochee river, opposite Columbus, to Mobile, under the title of the Girard railroad. A portion of the eastern division of this road is under contract. Its whole length is about 210 miles. It traverses, for a considerable part of its length, a rich planting region, only sparsely settled, for the want of suitable avenues. This line would form a very important extension of the Muscogee and the Georgia system of roads. Of its eventual construction there can be no doubt, though the means applicable to the work may not secure rthis result immediately. The line occupies a very important throughroute, and the project will be likely to receive the attention of other parties interested in its extension, so soon as they shall be released from their present duties, by the completion of the works upon which they are now occupied.

The Memphis and Charleston railroad, the line of which traverses the great Tennessee valley in Alabama from east to west, has already been briefly noticed. It commences at Memphis, the most important town upon the Mississippi between New Orleans and St. Louis, and passing through portions of Tennessee, Mississippi, and Alabama, forms a junction with the Nashville and Chattanooga road in the northeastern portion of the last named State. Its length is 281 miles; the whole line is under contract. Its estimated cost is about \$3,000,000. Nearly the whole cost of the road is subscribed in stock; and, as ample means for construction are already provided, the work will be urged forward toward completion with all practicable despatch.

The above line includes two of the old railroad projects of 1837; the Ldgrange, and the Tuscumbia and Decatur. The former of these was abandoned after its line was nearly graded; the latter was completed with a flat rail, and has for late years been worked by horses as the motive-power. The original object of the last named road was to serve as a portage around the "Muscle Shoals," which in low water are a complete obstruction to the navigation of the Tennessee river. Both of the above roads have been merged in the Memphis and Charleston road, and are now portions of it, and their direction coincides with that of the great line. Their adoption will diminish largely

the cost of the latter.

The Memphis and Charleston road, as part of a great line connecting, by a very direct and favorable route, the leading southern Atlantic cities, Charleston and Savannah, with the Mississippi river, may be urged as of national importance, and must become the channel of a large trade and travel. Its western division will form a convenient outlet to the Mississippi river, for that portion of the Tennessee valley; and will save the long circuit at present made by way of the Tennessee, Ohio, and Mississippi rivers. For the eastern part of this great valley, it will afford a convenient outlet to the Atlantic ports. will, when completed, form a part of the shortest practicable line of railroad between the Mississippi and the Atlantic-a fact in itself sufficient to establish its claims to public consideration. For the greater part of its length it traverses the "Tennessee valley," one of the most fertile districts in the United States. This road will add largely to the commercial importance of Charleston and Savannah, by securing to them a portion of a large trade now drawn off to the Mississippi for want of an eastern outlet.

The only considerable work in operation in Alabama, is the Montgomery and West Point railroad. This being one of the early projects of the South, was unfortunate in its original mode of construction, and has consequently been unproductive till within a few years. Under its present efficient management the road has been completely renovated; and now properly takes rank among the leading southern projects. It traverses a fertile and productive region, and has a large local business. It occupies an important position to the great throughline of travel between the North and the South. Travellers from Mobile and New Orleans can reach Montgomery by steamboat, at nearly all seasons of the year. From that point the line of travel is carried forward to the boundary line of Georgia, by the above railroad. From

West Point to the Georgia roads, the distance is less than 100 miles; and this link will shortly be supplied by the Atlanta and Lagrange railroad. The route of the Montgomery and West Point railroad is identical with that of a great line of travel, and is already in possession of a large through-business, which will be much increased by the progress of southern railroads. It may be here stated, that it is proposed to connect the last portion of this road with Columbus, so as to form a junction with the *Muscogee* railroad. Such an improvement would constitute the *Montgomery and West Point* road the trunk of two great eastern lines. It is also proposed to extend a line of railroad from Montgomery to Mobile. Although there can be no doubt of the ultimate realization of this last project, it is not yet sufficiently matured to demand further notice.

MISSISSIPPL

Population in 1830, 136,621; in 1840, 375,651; in 1850, 600,555. Area in square miles, 47,156; inhabitants to square mile, 12.86.

The only important work in operation in Mississippi is the Southern railroad, extending from Vicksburg to Brandon, a distance of about sixty miles. This, like the Montgomery and West Point railroad, was one of the early projects of the South, and has experienced a similar history. By the original plan it was proposed to make this part of a line extending through the States of Mississippi and Alabama to Georgia, and, in connexion with the roads of that State, to the Atlantic. As was the case with so many southern roads, the scheme proved a failure. It is, however, reviving under circumstances that promise full success. As already seen, a greater part of the Alabama portion is either completed or in progress; and operations are about to be commenced upon the unfinished Mississippi section. When completed, this line will prove a work of great public utility. There is none in the country for which there is greater apparent necessity. The whole route traverses one of the richest planting districts in the south; and as the people on its line can readily furnish the necessary means, its early construction is not to be doubted.

Of the proposed lines in this State, the most important is the New Orleans, Jackson, and Northern, by means of which the city of New Orleans aims at opening a communication with the roads in progress in the southern and western States. The proposed northern terminus of this great work is Nashville, the capital of the State of Tennessee. The length of the road will be about five hundred miles. It is regarded with especial favor by the people of New Orleans, and is one of the great works by which that city proposes to restore to herself a trade which has in a measure been lost; to turn again the tide of western commerce in her favor; and to develop the immense resources of an extensive region of country, to the commerce of which she may justly lay claim. The magnitude of this project is well suited to the greatness of the objects sought to be accomplished. After a long period of supineness, the city of New Orleans is at last fully awakened; and as an evidence of the interest already excited, and an earnest of future efforts, she has subscribed \$2,000,000 to the stock of the above

road, and is adopting the most vigorous and effective measures to secure its early construction. With the assistance offered by New Orleans, the people on the line of the road can readily furnish the balance necessary for the work. It traverses a region of great wealth and productiveness, the inhabitants of which are alive to the importance of the work, and stand ready to contribute freely whatever may be required of them. When the great interest that the city of New Orleans has at stake in the success of the above work, and the local means that can be brought to bear upon it, are considered, its early construction cannot be doubted. The route is remarkably favorable, and the road can be built, for a greater part of the distance, at the minimum cost of southern roads. The line of this road has not been definitely located, but will probably pursue a pretty direct course by way of Jackson and Aberdeen, Mississippi, and Florence, Alabama.

The next great line in the State is the Mississippi Central, extending from Canton in a northerly direction, and passing through Holly Springs to the State line of Tennessee. Thence it is proposed to extend it to Jackson, in the latter State, there to form a junction with the Mobile and Ohio road, and the proposed line from Louisville, Kentucky, to Memphis. At Canton it will unite with a road now in progress to Jackson, and, in connexion with this short link, will constitute the legitimate extension, northward, of the New Orleans and Jackson line. Although the work of construction has not yet commenced, ample means have already been provided by the counties, and the wealthy planters upon its line. The object of the road is to open an outlet for the rich cotton lands traversed by it, which are now deprived of all suitable means of sending their products to a market. Whenever railroads are constructed in the south, they diminish so largely the cost of transportation, and consequently increase the profits of the planter, that a necessity is imposed upon other districts to engage in their construction, as the means of competing successfully with those in possession of such works.

The above road, with its connecting links, will constitute an important line of through travel between New Orleans and the northern States.

Another road of considerable importance is proposed through the northern part of the State, commencing at Memphis, Tennessee, and passing through Holly Springs and the northern tier of counties to the Tennessee river. One of its leading objects is the accommodation of a very rich and productive planting district. The line of the Memphis and Charleston road will also traverse a small portion of the northeastern corner of the State.

LOUISIANA.

Population in 1830, 215,739; in 1840, 352,411; in 1850, 517,739. Area in square miles, 46,431; inhabitants to square mile, 11.15.

The State of Louisiana, having in the Mississippi river a convenient channel not only for the trade and travel of its own people, but for opening to them the interior commerce of the country, has neither attempted nor accomplished much in works of artificial improvement.

Before railroads were brought into use, the river afforded the best known mode of transportation, both for persons and property, and long habit had produced a conviction that it could not be superseded by any other channels or routes of commerce. No representations could awaken the people of New Orleans to a sense of the importance of following the example of other cities, and of strengthening their natural position, by artificial works, till a diminished trade—the result of the works of rival communities—rendered the necessity of undertaking similar improvements too apparent to be longer delayed. Although the projects of the northern and eastern States, by which they sought to reach the trade of the Mississippi basin, had been only partially accomplished, yet the influence which they exerted, even in their infancy, in diverting the commerce of that great valley from its natural and accustomed channels, has been so marked and decided, that, for a few years past, the trade between New Orleans and the distant portions of the great valley has diminished—at least has not increased—notwithstanding the rapid increase of the West in population and production. Such a fact was too startling not to arouse the whole community to a sense of the necessity of taking the proper steps to avert a calamity threatening the loss of their trade and commercial importance; and the people of New Orleans are now taking the most efficient measures to repair the consequences of their neglect, and are busily engaged in the prosecution of two great works, by means of which they propose to reëstablish and retain the hold they once had upon the trade of the Mississippi valley.

The leading project now engaging the attention of the people of Louisiana, and particularly those of New Orleans, is the New Orleans and Nashville railroad, by constructing which they propose to connect themselves not only directly with a region of country capable of supplying the largest amount of trade, but with the numerous railroads now in progress in the south and west. The length of this road will not be far from 500 miles. It will traverse, as is well known, a very fertile and productive region, and at its northern terminus, will be brought into communication by railroad with every portion of the country. It is believed that this road will exert a strong counteracting influence to the efforts now made to draw off the trade of the Mississippi valley toward other cities. The whole line is now under survey, and will be placed under contract as soon as practicable, when the work of construction will be urged forward with the greatest possible despatch.

The other leading project dividing the attention of the State with that described, is the New Orleans and Opelousas railroad. The object of this road is to accommodate the trade and travel of the country traversed, and eventually to form the trunk of two other great lines; one extending into Texas, with the expectation that it will eventually be carried across the continent to the Pacific; and the other in a northerly direction, through Arkansas, to St. Louis. These extensions, however, form no part of the present project, which is limited to the territory of the State.

The route of this road traverses the great sugar-producing district of Louisiana, from which transportation to a market, on account of the impossibility of constructing good earth-roads, involves a heavy expense and great delay. For the immense products of this portion of

the State, the road will constitute a suitable outlet in the convenient direction of trade. The work of construction will be commenced im-

mediately, as ample means are prepared for this purpose.

The above are the two leading works of the State, and alone require particular description. Most of the projects that will be constructed within the State, for some years to come, will probably be based upon the above lines.

The influence which railroads are calculated to exert upon the commerce, and in this manner upon the public sentiment of a community, has been remarkably illustrated in the present condition of the trade of New Orleans; and in the extraordinary revolution which a conviction of the necessity of these works, as a means of maintaining their prosperity and commerce, has effected in the political organization of that city and the State. So long as commerce was confined entirely to natural channels, New Orleans occupied a position possessing greater advantages than any other city on this continent. She held the key to the commerce of its largest and most productive basin, watered by rivers which afford 50,000 miles of inland navigation. This basin is now the principal producing region of those articles which form the basis of

our foreign and domestic commerce.

The ability, therefore, to monopolize this trade, will be the test of commercial supremacy among numerous competitors. Before the construction of artificial channels, New Orleans enjoyed a natural monopoly of the trade of the Mississippi valley. But it has already been demonstrated that in the United States, natural channels of commerce are insufficiently matched against those of an artificial character. The progress of the latter has already made serious inroads upon a trade, to which the merchants of New Orleans formerly supposed they had a prescriptive right. There can be no doubt that this trade is to be turned toward the eastern cities, unless it can be restored to its old routes by the construction of channels better suited to its wants than the Mississippi river and its tributaries. As already stated, the people neither of New Orleans, nor of the State, could be induced to act, till the danger to be averted became imminent. But as, in the southern States, works of the magnitude proposed cannot be executed by private enterprise, it was found, so far as Louisiana was concerned, that neither the credit of the State, nor that of the city of New Orleans, could be made available to the works proposed; that of the State from a constitutional inhibition, and that of the city because it had already been dishonored. Under these circumstances, is was felt that the first step to be taken was to remove the disability on the part of the State, and to restore the credit of the city, to a point at which it could be made available for the earrying out of plans designed to promote its growth and prosperity. Both objects have already been accomplished. The constitution of the State has been remodelled, so as to permit extension of aid to railroad projects. A much greater change has been effected, as far as New Orleans itself is concerned. Up to a recent period that city was divided into three municipalities, each having a distinct political organization. Each of these municipalities had contracted large debts, the payment of which had been dishonored. Their credits, of course, could not be made available for any works of improvement.

seen that the proper and only course for the accomplishment of the results aimed at, was to consolidate the different organizations into one body, and pay off old liabilities by new loans resting upon the credit of the whole city. All this has been effected. The result has been magical. The credit of the city has been completely restored. The new loan, to pay off outstanding liabilities, commanded a handsome premium, and the city is now in a position to extend efficient aid to her proposed works. As the loss of her business and her credit could be directly traced to the indifference with which she regarded all works of internal improvement, she proposes to restore both by calling to her assistance all the agencies supplied by modern science in aid of human efforts, and in the creation of wealth.

In addition to the recent loan of \$2,000,000 referred to, the city has voted \$2,000,000 in aid of the New Orleans and Nashville, and \$1,500,000 to the New Orleans and Opelousas roads. These sums will probably be increased, should it be found necessary to the accomplishment of their objects. Both works are to be pushed forward with all the despatch called for by the exigencies demanding their construc-

tion.

There are two or three short roads in operation in this State, of a local character, and other lines are projected; but they are not sufficiently matured to call for particular notice in this report.

TEXAS.

Population in 1850, 212,592. Area in square miles, 237,321; in-

habitants to square mile, 0.89.

The State of Texas has been too recently settled to allow time for the construction of extensive lines of railroad. It must, however, soon become an active theatre for the progress of these works, which are not only very much needed, but for which the topographical features of the State are favorable. The surface of the greater part of it consists of level, open prairies, which can be prepared for the superstructure of railroads at a slight expense. The soil is of great fertility, capable of producing large quantities of sugar and cotton, which must ultimately be forwarded over railroads to market, from the absence of navigable rivers.

The most prominent projects, at the present time, occupying the attention of the people of this State, are the proposed road from Galveston to the Red river, and the extension westward of the New Orleans and Opelousas railroad. The line of the former of these extends from Galveston in a generally northern direction, between the Brazos and Trinity rivers, to the Red river, which forms the northern boundary of the State. It will be about four hundred miles long. Through its whole length it traverses a fertile region, well adapted to the culture of cotton. This portion of Texas is entirely wanting in any natural outlet for its products. It already contains a large and thriving population, capable of supplying a lucrative traffic to a road. Towards this project the State has made a grant of lands equal to 5,000 acres per mile of road, and will, if necessary, extend farther aid. These lands are a gratuity to the company constructing the road. Measures are now in progress which

will probably result in placing the whole of this important work under contract. When completed it will prove of great benefit to the people upon its route, and to northern Texas; will add a large area to the available cotton-producing district of the South, and will greatly increase the commercial importance of Galveston, the principal seaport of the State.

The other work referred to traverses the State from east to west, connecting at its eastern terminus with the New Orleans and Opelousas road. The above is proposed, not only as an outlet for the trade and commerce of the central portion of the State, but as part of a great line of railroad connecting the Gulf of Mexico with the Pacific. It is claimed that through Texas is to be found the appropriate line for such a work. Should such prove to be the fact, the proposed line will coincide with the route of the national road, as far as the territory of Texas is concerned. Apart, however, from all considerations of its becoming a portion of the Pacific project, the necessity for a railroad traversing the State from east to west is so urgent, that its speedy construction may be considered certain.

No State in the Union is making more rapid progress than Texas, and the lapse of time will surely bring with it all the improvements we find in older States. The value of such works is fully appreciated, and there is every disposition to encourage their construction by liberal grants of land, of which the State holds vast bodies. The only remaining work in progress in the State is the Buffulo Bayou, Brazos, und Colorado road, extending from Harrisburg, on Buffalo bayou, to the Brazos river, a distance of thirty-two miles. The object of this road is to divert the trade of that river to Galveston bay. This trade has already become important, and the above work will open for it an outlet

in a convenient direction to the principal seaport of the State.

There are numerous other projects engaging the attention of the people in various portions of the State; but there are none, except those described, of which the direction and objects are sufficiently defined, to fall within the scope of this notice. When the great area of Texas, the favorable character of its territory for the construction of railroads, its resources, and the dense population it will soon contain, are taken into consideration, there can be no doubt that it will, ere long, become an active theatre of railroad enterprise and success.

In addition to those named, the following projects are attracting more

or less attention throughout the State, viz:

- 1. The Texas Western railroad, to run from Corpus Christi to such points on the Rio Grande as may be deemed expedient, in the direction of El Paso.
 - 2. The Goliad and Aransas Bay railroad.

3. The Lavaca railroad, to run up Guadalupe valley.

- 4. The San Antonio and Mexican Gulf railroad, to run from some point on the coast between Galveston and Corpus Christi to San Antonio.
 - 5. The Brazos and Colorado railroad, from Austin to Galveston bay.6. The Henderson and Burkville road, from Burkville to Henderson.
 - 7. The Vicksburg and Austin City road.
 - S. The Vicksburg and El Paso road, in about 22° latitude.

ARKANSAS.

Population in 1830, (Territory,) 30,388; in 1840, 97,574; in 1850, 209,639. Area in square miles, 52,198; inhabitants to square mile, 4.01.

This State has heretofore been regarded as too remote, and too thinly settled, to become the theatre of railroad enterprises. A number of important projects, however, are now attracting great attention and interest among her people. The leading of these are the proposed road from Little Rock to the Mississippi river, opposite Memphis, with a branch to Helena; a road from Little Rock to Shreveport, on Red river; and the line running from St. Louis to New Orleans. The projects are rapidly assuming a definite shape. The want of a dense population, and consequently of means for the execution of enterprises of magnitude, may, for the present, delay the construction of roads in this State; but, as in other western States, they will follow close upon the wants and the ability of the people of Arkansas to construct them.

TENNESSEE.

Population in 1830, 681,904; in 1840, 829,210; in 1850, 1,002,625. Area in square miles, 45,600; inhabitants to square mile, 21.98.

The remarks by which the notice of the Kentucky improvements is prefaced, are appropriate to those of Tennessee. The early projects of this State were equally unfortunate; they shared a similar fate, and produced the same results, so far as the public mind was concerned. It required the same efforts to restore to the people of the State confidence in their ability to execute these works, and arouse the public mind to a sense of their value. This object has been fully accomplished. An elaborate system has been devised, adapted to the wants of every portion of its territory, and toward the construction of it the State guaranties a credit to the amount of \$8,000 per mile, for the purchase of iron and equipment, upon the condition that the companies prepare the road-beds, and defray all other charges of construction. The State retains a lien upon the whole property, as security for the amount advanced. The companies embraced in the internal improvement act are the following: The Chattanooga and Charleston, the Nashville and Northwestern, the Louisville and Nashville, the Southwestern, the McMinnville and Manchester, the Memphis and Charleston, the Nashville and Southern, the Mobile and Ohio, the Nashville and Memphis, the Nashville and Cincinnati, the East Tennessee and Virginia, the Memphis, Clarksville, and Louisville, and the Winchester and Alabama railroads-making, in the aggregate, about 1,000 miles of line. This act is believed to be judicious on the part of the State, as it will secure the construction of most of the projects coming within its provisions, without the risk of loss. By the use of the credit of the State, railroad companies will be enabled to save a large sum in discounts and commissions, which other roads are compelled to pay, upon the sale of their own securities.

The most prominent road in the State, at the present time, is the Nashville and Chattanooga railroad, connecting the above places by a

line of 151 miles. Chattanooga is already connected by railroad with the cities of Charleston and Savannah. About 100 miles of the above road are completed, and it is expected that by the first of January next the Tennessee river will be reached, and that the whole line will be

completed in a few months after that event.

The above road is the appropriate extension of the Georgia and South Carolina lines into the Mississippi valley, to which it opens an outlet on the southern Atlantic coast. For the want of other lines of communication, the Mississippi river and its branches have been the outlet of the trade of Tennessee. The completion of the roads now in progress will liberate this trade from the long circuit it has been compelled to take, by way of the Cumberland and Tennessee rivers, to market, and bring it into direct communication with its best customers, the cotton-producing portions of the southern States.

The road is important, not only for the reasons stated, but as a connecting link between two great systems of railroad occupying the northern and southern States. At Chattanooga and Winchester this road will connect with the railroads of Charleston, Georgia, and Alabama. Its northern terminus, Nashville, is the radiating point of a number of important roads, all of which will soon be in progress, extending towards Cincinnati, Louisville, Evansville, and the Mississippi

river.

This road has communicated a new impulse; and, in fact, it may be said to have given birth to most of the important projects in progress in the central portion of the State. It constitutes the channel of communication with other roads, and supplies them with necessary outlets and connexions; without which there would be no sufficient inducement to warrant their construction. It has been prosecuted with vigor and energy, and its affairs have been managed with an ability that has contributed not a little to raise the confidence of the southern people in their capacity to undertake and prosecute successfully railroad enterprises.

Railroads in East Tennessee.—The eastern portion of the State of Tennessee has no geographical connexion with the rest of the State, and its railroad projects make up no part of the general system. The most important of these projects are the East Tennessee and Georgia, and East Tennessee and Virginia roads. Together they traverse the entire State from north to south, by a line of about 240 miles, of

which 15 miles lie within the State of Georgia.

East Tennessee and Georgia railroad.—This road commences at Dalton, and is completed to Loudon, on the Tennessee river, a distance of 80 miles. It is in progress to Knoxville, its northern terminus, a farther distance of 30 miles, making the whole length of its line 110 miles. This was one of the early projects of the South, under the title of the Hiwassee railroad, which broke down after the expenditure upon it of a large sum. A few years since it was recommenced under new auspices, and has been carried forward successfully to its present termination.

East Tennessee and Virginia railroad.—The line of this project commences at Knoxville, where it will form a junction with the road above described, and extend in a northeasterly course to the Virginia State line, a distance of 130 miles. Here it will meet the Virginia State line, a distance of 130 miles.

ginia and Tennessee railroad. The entire line of the former is under contract, to be ready for the iron as soon as the connecting roads shall be opened. The line of the East Tennessee and Virginia road could not be brought into profitable use, and would, in fact, hardly be accessible without the opening of the connecting roads above referred to. In addition to the general provisions of the State, in aid of railroads, the sum of \$300,000 was granted to this road for the purpose of building several expensive bridges. It is believed that the work will be completed within three years from the present date.

The above roads traverse a very fertile, but comparatively secluded portion of the country. In addition to its agricultural resources, it is rich in the most valuable minerals. Its great distance from market has proved a serious obstacle to its prosperity; but, with the avenues which the above roads will supply, it must soon become one of the flourishing portions of the country and the seat of a large manu-

facturing, as well as an agricultural interest.

The above roads derive their chief public consideration from their connexion with the great national line, which has been already described, and of which they form an important link. This great line will form the shortest and most direct route between Mobile and New Orleans, and the North; and must consequently become one of the most important routes of travel in the whole country. The lower part of this line will undoubtedly be connected with Chattanooga by a short branch, giving connexion with the roads intersecting at that point.

The Tennessee and Alabama road is a work of much consequence, as it will be connected with the Nashville and Chattanooga road at Winchester, with the Memphis and Charleston at Huntsville, and with the Alabama and Tennessee at Gunter's Landing. From Winchester to Huntsville the distance is about 46 miles. For this distance the whole line is under contract, and well advanced towards completion.

From Winchester a road is also in progress to McMinnville, a distance of about 35 miles. From this point it is proposed to extend a railroad northerly, through Central Tennessee, by way of Sparta, for the purpose of forming a junction with the southern extension of the Lexington and Danville railroad by way of Burkesville, Kentucky. This is a project entitled to State aid. It will be seen that, with its connexions, it would form a direct route for a railroad between the northern and southern States.

Another proposed line, radiating from Nashville, is the Nashville and Northwestern railroad, extending from that city to the Mississippi river, near the northwestern angle of the State. This project also is entitled to State aid, and is regarded as essential to the system which Tennessee has proposed for herself. Its line traverses an excellent region of country, and would furnish an outlet for it in the direction either of Nashville or of the Mississippi river. The portion of this line towards Nashville is an expensive one; and this fact may, for the present, delay the commencement of the work.

The internal improvement act of the State contemplates the construction of three roads extending from Nashville in southern and southwestern directions—the Nashville and Southern, the Nashville and

Southwestern, and the Nashville and Memphis roads. Of these the first-named has made the most progress, its route being under survey preparatory to placing it under contract. It is intended to make this road a portion of the New Orleans and Nashville line. Its line traverses one of the best portions of the State, able to supply abundant means for the work, and its construction may be regarded as beyond any reasonable doubt.

The Nashville and Southwestern road will probably extend from Nashville to the bend of the Tennessee river. For a portion of the distance, this and the Nashville and Southern may be united in one trunk line. At the Tennessee river the above road will form a junction with the Mobile and Ohio road, and, through this, with the Memphis and Charleston road. By means of these connexions continuous lines of railroad will be formed, uniting Nashville with Mem-

phis, New Orleans, and Mobile.

The Nashville and Memphis road will take a more westerly direction than either of the two last named. Its object, in addition to the accommodation of the local traffic upon its route, is to open the shortest practicable communication between the capital of the State and its principal commercial town. The construction of this road is believed to be demanded on the considerations above stated. Its proposed line traverses a very excellent section, capable of affording a large trade; and the city of Memphis must always remain the entrepôt of a large portion of the merchandise imported into the State, and the point to which must be forwarded a large amount of its surplus products designed for exportation.

The Nashville and Louisville road is a very important work, and will be more particularly described with the roads of the State of Kentucky, a comparatively small portion only of the line of this road being in Tennessee. For this project sufficient means for construction have been provided, and the work is to be immediately placed under

contract.

State appropriation.

The line of the Mobile and Ohio railroad traverses Western Tennessee from north to south, and will supply valuable accommodations to that portion of the State. This road may be regarded as an Alabama project, and has been particularly described in the notice of the roads of that State. The Tennessee division is immediately to be placed under contract, and as it runs through a rich planting district, abundant means can be readily raised for its construction, in addition to the

The proposed Memphis, Clarksville, and Louisville railroad is another important project in West Tennessee. It will probably intersect the Louisville and Nashville road at Bowling Green, Kentucky. In connexion with the latter, a very direct line of road will be formed between Memphis and Louisville, which will constitute a convenient avenue from the former city, in a northeasterly direction, and which will become a leading route of travel in the southwestern States. It traverses a fertile section of country, capable of supplying a lucrative traffic. It is probable that this road may be constructed as a branch of the Louisville and Nashville road.

KENTUCKY.

Population in 1830, 687,917; in 1840, 779,828; in 1850, 982,405, Area in square miles, 37,380; inhabitants to square mile, 26.93.

This State commenced, some years since, a system of improvement founded principally upon the plan of rendering navigable her principal rivers—the Green, Licking, and Kentucky. Although large sums were expended upon these works, they have, with the exception of the improvements on the Green river, proved of little value. They are almost entirely unremunerative, as far as their tolls are concerned; although the Green river improvements have been of great advantage to the country traversed by it, in the outlet they have opened to a market. As a system they have proved a failure, and all idea of the prosecution of works of a similar kind has long since been abandoned.

Railroads of Kentucky.

Louisville and Lexington railroad.—The only railroad in operation in the State is the line from Louisville to Lexington-made up of the Louisville and Frankfort and Frankfort and Lexington roads. These roads were commenced at an early period in the railroad history of the country; and it has been only after repeated efforts and failures that they have been recently completed. The projects shared the fate of all the pioneer western roads, having been abandoned, and their completion postponed for many years after they were commenced. The length of these roads is 93 miles, and the cost about \$2,500,000. The disastrous results which attended the enterprises referred to exerted a most injurious effect upon the public mind of the State. Discouraged by the failures which had been sustained, the people became almost indifferent to the subject of internal improvements, except so far as the construction of Macadamized roads was concerned, for the number and excellence of which, the State is justly celebrated. When the public mind of the West was again turned to the subject of railroad construction, it was with the utmost difficulty that the people of Kentucky could be convinced of the importance of these works, or induced to take any steps toward their construction. The losses suffered on account of the Louisville and Frankfort, and Frankfort and Lexington, railroads, were fresh in mind; and the people distrusted the success of the new projects from experience of the old. The example of the neighboring States, whose success in their recent efforts demonstrated the capacity of the West not only to build railroads, but to supply a lucrative traffic to them, and the rapid progress of those regions of country enjoying the advantages of these works, gradually inspired confidence, and aroused the people to action; and the State of Kentucky is now one theatre of the most active efforts to secure the construction of railroads. Every part of the State is fully alive to the subject, and its surface will soon be as thickly checked with lines as are the States of Ohio and Indiana.

The leading lines in the State, now in progress, are-

1. The Louisville and Nashville railroad.—The line of this road will be about 180 miles long. Its route has been determined, and will pass

through a very fertile portion of the State, capable of supplying an immense traffic to a railroad, and entirely wanting in suitable outlets to markets, excepting that portion of the route near Bowling Green. The connexions it will form will be of sufficient importance to give the work a national character, as it will probably be the most conspicuous connecting link between the roads of the two extremes of the confederacy. The road is to be placed immediately under contract; and as ample means are already provided for this purpose, its construction, at

the earliest practicable period, may be set down as certain.

A very important branch from the above road—exceeding in length even the main trunk—is the proposed Memphis, Clarksville, and Louisville road, which has already been described under the head of "Tennessee." This road will probably leave the Nashville and Louisville road at Bowling Green. It will be seen that the two would form a very direct line between Louisville and Memphis. The Memphis extension is regarded with great favor by the people of Louisville, and by the friends of the Louisville and Nashville projects. As a large portion of the proposed extension is embraced in the State of Tennessee, it will come in for the State aid; and as it traverses a rich section of country, and will receive the efficient support of Louisville, there can be no

doubt of its speedy construction. Another line of road proposed, for the purpose of connecting Cincinnati with Nashville, and attracting much attention in central and southern Kentucky, is composed of the Covington and Lexington line, through the towns of Bowling Green, Kentucky, and Gallatin, Tennessee. A reference to the annexed map will at once show the important relation it bears to the railroad system of the whole country. The city of Nashville is to be the centre of a great southern system of railroads radiating in every direction toward all the leading southern cities situated on the Atlantic coast and the gulf. In a few months this city will be in direct communication, by railroad, with the cities of Savannah and Charleston. Roads are also in progress to Mobile and New Orleans, to various points on the Mississippi, and to other portions of the State. The city of Louisville will be no less favorably situated, with reference to the railroads of the northern and eastern States. the north and west, the New Albany, and Salem and Jeffersonville roads, will open a communication with the roads of Ohio, Indiana, and Illinois, and with the leading cities of all these States. On the east, the line of railroad to Lexington will connect with all the railroads radiating from that point, some of which will open outlets to the eastern States, and to the great Atlantic markets.

The cost of this road will amount to about \$5,000,000. Sufficient means have been already provided to warrant its construction. The city of Louisville has subscribed to its stock to the amount of \$1,000,000, and the counties on its line have taken stock with equal liberality. The route traversed by this road runs through one of the most fertile and densely settled portions of the State.

The Covington and Lexington, and Danville and Nashville.—The two first links, having an aggregate length of 136 miles, are already in progress. Active measures are in progress to secure the necessary means for the last. This route will pass through Glasgow, an import-

ant town in southern Kentucky. The upper portion of this line may be made the trunk of two important branches, one extending nearly direct in a southerly course through the State of Tennessee, (taking the towns of Sparta and Winchester in its route,) to Huntsville, Alabama, where it will form a junction with the Memphis and Charleston road; thence it will be extended to Gunter's Landing, in order to connect with the Alabama and Tennessee River road. The portion of this line from Winchester, south, is already in progress. The Tennessee division is embraced in the general facility bill. At Winchester, this line will have a southeasterly outlet, by means of the Nashville and Chattanooga railroad.

The other branch referred to is the proposed road to be constructed through southeastern Kentucky and eastern Tennessee, to Knoxville, there to connect with the lines of railroad centring at that point. The importance of this route, for a railroad, has always been recognised, and that section now under discussion formed a part of the old Cincinnati and Charleston project, which attracted so much attention through the southern and western States many years since, and which has been referred to in another part of this report. Measures are in progress to secure the means for this line. The great obstacle in the way of its immediate construction, is the scanty population and want of means on the line of the route. The importance of this link, however, to the connexion lines, now on the eve of completion, must secure to it such foreign aid as shall be necessary to its success.

The next line in order is the Maysville and Lexington railroad. though started as a local project, is now proposed as a part of a great through-line, connecting the most remote portions of the country. At Lexington it will form a junction with all the lines centring at that point. From its eastern terminus, Maysville, the Maysville and Big Sandy railroad will carry it forward to Portsmouth, on the Ohio river. the latter place the Scioto and Hocking Valley railroad is in progress, which pursues, for some fifty miles, the same general direction with the connecting Kentucky line, till it forms a junction with the Hillsboro and Cincinnati, and Cincinnati and Marietta roads, the former of which is to constitute the extension, wes erly, of the Baltimore and Ohio, and the latter of the Pennsylvania Central road. To the mouth of the Big Sandy river, the Maysville and Big Sandy railroad will connect the former with the Virginia Central road, which it is proposed to carry across the mountains, terminating on the Ohio, at this point. These combinations will secure to the Maysville and Lexington road an important place in a great line of railroad, traversing the country from one extremity to the other, in the convenient direction of business and travel. With the exception of the Maysville and Big Sandy road, all the links necessary to this great line are in progress. The Maysville and Lexington railroad will probably be opened for business during the year 1853.

Lexington and Big Sandy railroad.—This proposed road is attracting much attention in Kentucky, particularly that portion of the State to be traversed by it. By reference to the accompanying map, it will be seen that it would form a convenient portion of the great line of road just referred to. Measures are in progress to raise the means neces-

sary for its construction, with good promise of success. As a local work, it will prove to be of great benefit to the country traversed, deprived as it is of suitable and convenient avenues to market.

Henderson and Nashville railroad.—This line is the legitimate extension, southward, of the Wabash Valley railroad. As a connecting link between other roads, a reference to the annexed map will give a better idea of its importance than any description. The southern shore of Lake Michigan will attract to itself all the lines of railroad running from The Gulf of Mexico in a northerly direction. Between this lake and the cities of New Orleans and Mobile, the great route of travel will probably always be by way of Nashville. This route will, apparently, be the shortest, and most convenient and agreeable to the traveller, whether for business or pleasure. It coincides with the great route through the Wabash valley, and has the advantage of taking in its course the leading commercial towns in the interior of the country. These facts must always attach particular importance to the Henderson and Nashville railroad as a through-route, and in this respect it can hardly be exceeded by any road of equal length in the United States. local point of view the road is important, and its prospects flattering, as it traverses a region of great fertility, and already distinguished for the extent and value of its productions.

A road is also in progress from Louisville to Shelbyville, which may eventually be extended to Frankfort. A road is also proposed from Harrodsburg to Frankfort. Another is projected from Paris, on the Maysville and Lexington road, via Georgetown, to connect with the Louisville and Frankfort railroad, for the purpose of cutting off the de-

tour by way of Lexington.

The only project remaining to be noted is the Louisville and Cincinnati road, which is now beginning to attract much attention, not only in the State, but in the above cities. The necessity of the road is daily becoming more and more apparent. Cincinnati and Louisville are soon to become central points in widely extended and distinct systems of roads, extending to the great lakes on the one hand, and to the Gulf of Mexico on the other. The public convenience and the wants of commerce require that this connecting link should be supplied. The travel between the above cities is already great, and is carried almost entirely upon steamboats. The time now occupied by a trip is about twelve hours. The distance by river is 150 miles. By the proposed road it would be reduced to ninety-five miles, and the time to four hours. Active measures are now in progress to provide the necessary means for this work, and to place it under contract.

OHIO.

Population in 1830, 937,903; in 1840, 1,519,467; in 1850, 1,980,408. Area in square miles, 39,964; inhabitants to square mile, 49.55.

In considering the works of improvement projected in the interior, for the purpose of opening outlets for products, a marked difference is found between them and works constructed by our Atlantic cities for the purpose of securing to themselves the interior trade of the country. Although these last were designed to reach and accommodate

this trade, they took their character and direction rather from the supposed advantage they were to secure to the cities which mainly furnished the means for their construction, than from that to the country traversed. As far as practicable, they aimed at a monopoly of all the trade within their reach; but, with roads projected in the interior for the purpose of opening outlets to a market, a different principle prevails. The ruling motive in such case is, so to shape the project as to secure the cheapest access to the best market, or to a choice of markets, and to escape the monopoly which the markets themselves seek to impose: The leading improvements projected in the interior, therefore, often have a more national character, and are constructed with more reference to the wants of the whole community, than those of the East.

The value of works facilitating and cheapening transportation can be fully estimated only when they are considered in reference to that portion of our population residing in the interior. As already stated, we have few markets, and those far removed from the great producing The early settler in the western States of necessity engaged in agriculture, and so long as he was without means of forwarding his surplus to a market, the gratification of his wants was limited to what his own hands could supply. The time had not arrived for a diversity of pursuits in his own neighborhood, and he was too remote to avail himself of those of the older States. The cost of transportation placed it beyond his means to purchase from abroad, and his surplus was, therefore, comparatively worthless after the supply of his own immediate Thirty years ago, the West offered but few inducements to the settler, as he was compelled to sacrifice all the social and many of the physical comforts afforded in the less fertile, but better settled and richer States of the East. Without variety of industrial pursuits, and without commerce, no amount of surplus could add much to his wealth or his means of enjoyment. This portion of the country therefore advanced very slowly, until the construction of the Erie canal, by which a market was thrown open, and its vast productive capacity rendered available. An instantaneous and mighty impulse was imparted to it, under the influence of which, all its interests have moved forward with constantly accelerating pace up to the present time.

The completion of the Erie canal, in connexion with the great lakes, gave a navigable water line from New York to Chicago, a distance of 1,500 miles, and opened a market to the whole country within reach of this great water line. In order to profit by this outlet, the western States lying upon the lakes immediately commenced the construction of similar works to connect with it the more remote portions of their territory. At that period, canals were regarded as the most approved mode of transportation. Hence the system of internal improvement in the West almost exclusively embraced the construction of canals. The early projects of the States of Ohio, Indiana, and Illinois, were, with a very few exceptions, of this character, though their further pro-

gress has since been entirely superseded by railroads.

In reviewing the public works of the West, the State of Ohio, in some respects, constitutes an appropriate starting point, as she was the first to enter upon, and the only one to execute, what she originally proposed. After a severe struggle, her great system of canals was com-

pleted, and the result has been to place her immeasurably in advance of all her sister States in wealth, in population, and in general prosperity. The rapidity of her progress has been the marvel of the country. In a very few years she rose from obscurity to the first rank among her sister States in population, in wealth, in credit, and in consideration both at home and abroad.

Canals of Ohio.

Ohio canal.—This work was commenced in 1825, and was completed in 1832. It extends from Portsmouth, on the Ohio river, to Cleveland, on Lake Erie, a distance of 307 miles. It ascends the valley of the Scioto nearly to Columbus, when it takes an eastern direction, striking into the valley of the Muskingum, passing through the towns of Hebron, Newark, Coshocton, New Philadelphia, and Massillon, in this valley. Crossing the summit at Akron, it falls into the valley of the Cuyahoga river, which it pursues to Cleveland. The highest point in the canal at Akron is 499 feet above the Ohio river at Portsmouth, 405 above Lake Erie, and 973 above the Atlantic ocean. The canal is 4 feet deep, 40 wide, has 147 locks, and an aggregate lockage of 1,220 feet.

This canal has several branches or navigable feeders, of which the

following are the principal:

The Columbus branch.—This branch extends from the point at which the canal leaves the Ohio valley, to Columbus, a distance of 10 miles.

The Lancaster branch.—This is a lateral branch, extending from the main trunk southerly, to the town of Lancaster, the capital of Fairfield county, a distance of 9 miles.

The Athens extension or Hocking canal is a prolongation of the Lancaster branch. It has a southeasterly course through the counties of Fairfield, Hocking and Athens, to the town of Athens, a distance of about 56 miles.

The Zanesville branch, extending from the main canal to the town of Zanesville, on the Muskingum river, a distance of 14 miles, connects it with the Muskingum improvement, by means of which another channel is opened to the Ohio river at Marietta.

The Walhonding branch extends from the main canal, near Coshoc-

ton, upon the Walhonding river, a distance of 25 miles.

The Miami canal.—This work extends from Cincinnati to Lake Erie, at Manhattan, a distance of 270 miles. The principal towns through which it passes are Hamilton, Dayton, Troy, Sidney, Defiance, and Toledo. This last town is generally considered as the northern terminus of the canal, although it is carried to Manhattan, four miles below it. This canal was commenced in 1825, and completed in 1832. It has a width of 40 and a depth of 4 feet; its summit-level is 510 feet above Cincinnati and 411 feet above Lake Erie, and the number of its locks is 102. This canal, from Lake Erie to the Indiana State line, forms the lower trunk of the Wabash and Erie canal, extending to Evansville, on the Ohio river. There are also connected with this canal, in Ohio, branch lines measuring 45 miles in length.

The following table shows the length and cost of the Ohio canals constructed by the State:

	Length.	Cost.
The Ohio canal and branches	340	\$4,695,203
The Walhonding canal		607,268
The Miami canal and branches		7,454,726
The Hocking Valley canal	56	975,480
The Muskingum improvement	91	1,627,318
	827 mile	s. 15,359,995
	===	

In addition to the above works, owned by the State of Ohio, are the

following private works:

The Sandy and Beaver canal.—This work commences at Bolivar, on the Ohio canal, and extends to the Ohio river, at the mouth of the Beaver river, a distance of about 76 miles. The cost of this work was about

\$2,000,000. A portion of it is in the State of Pennsylvania.

The Mahoning canal.—This canal commences at Akron, pursues the left bank of the Cuyahoga river, running through the town of Ravenna, thence into and along the valley of the Mahoning to its confluence with the Beaver canal, in Pennsylvania, a short distance from the State line. The length of this canal is about 77 miles, and its cost something like \$2,000,000. It was, before the construction of railroads in Ohio, and still is, an important channel of communication between Pittsburg and Cleveland, and the interior of Ohio, and supplies the latter city with the important article of coal, which is found in the greatest abundance and of the best quality in the Mahoning valley.

In the vast number of railroad projects which have sprung up in Ohio within a few years, and which are absorbing public attention, the canals of the State have sunk into comparative insignificance. The former have, however, been the great cause of its unexampled prosperity, as they supplied the demand of its people for a cheap and comparatively expeditious route to market, and enabled them to turn to immediate account their large resources. It is probable that they may still continue to be the carriers of the more bulky and less valuable kinds of property, and in this manner prove of utility, though of smaller comparative importance. Although railroads may take from the canals a large portion of their traffic, the former will probably develop a still larger trade in articles of merchandise, for which the canals are the appropriate channels; so that the interests of the two systems of improvement, instead of clashing, will be found to be in strict harmony. The canals, unfortunately, are not first-class works, so far as their construction and capacity are concerned, and during periods of great drought, occasionally fall short of water.

Railroads of Ohio.

The railroads of Ohio may be said to belong to two distinct and well defined periods in the history of the internal improvements of the State. The first class includes those commenced during the great speculative

movement of 1836 and 1837, which were, for a considerable lapse of time, the only projects of the kind attempted in the State. These

1. The Little Miami railroad, commenced in 1837 and completed in 1846, was originally laid out with a flat rail, which has since been replaced by the heavy H or T rail. It extends from Cincinnati to Springfield, a distance of 84 miles, and has cost, up to the present time, about \$2,500,000.

2. The Mad River and Lake Erie, commenced in 1836 and completed in the latter part of 1846, extends from Sandusky, on Lake Erie, to Springfield, a distance of 134 miles, where it forms a junction with the Little Miami road, constituting a continuous line of railroad from Lake Erie to the Ohio, which was the first to connect these water-courses. A portion of this road was opened in 1838. It was originally laid with a flat rail, which has since been replaced by one better adapted to a heavy traffic.

3. The Mansfield and Sandusky railroad was commenced in 1836, and a portion of it opened in 1838. It was completed to Mansfield in 1847. Like all the early Ohio railroads, it was first laid with the flat bar,

which has since given place to the heavy rail.

4. The Lake Erie and Kalamazoo extends from Toledo, on Lake Erie, to Adrian, where it forms a junction with the Michigan Southern railroad, to which it forms an outlet to the roads of Ohio. The length of this road is about 33 miles. It was commenced in 1836, and completed in 1845. Its superstructure was, in the outset, a flat rail, which has recently, since the completion of the Michigan Southern road, given

place to a heavy bar.

These are the only roads commenced, under the stimulus of the great movement already referred to, the original plans for which were finally accomplished. All other projects fell to the ground in the commercial revulsions which followed. These failures, and the long delay in completing the roads already described, were in part owing to the financial embarrassments which succeeded, but yet more to the limited amount of capital, and to the want of engineering skill and experience brought to bear upon them. Nothwithstanding all the embarrassments and losses to which they were subjected, it is believed that they are all

now yielding a profitable return upon their entire cost.

It may not here be out of place to remark, that the numerous failures in the first efforts of the new States to construct works of internal improvement were not the result of accident, but a matter of necessity. The schemes were all premature; neither the means, nor the engineering and practical talent, essential to success, existed. The country had not been settled a length of time sufficient to designate the sites that were to become the great depots of trade, or the convenient routes for travel and business. At this distance of time, it is easy to see that the failure of many of the works undertaken in the West and South, not only by the States but by individuals, was unavoidable; and that with the lights we now possess, their construction would have been postponed until a condition should have arisen more favorable to success. These failures were no just cause of reproach to the States

in which they occurred, except so far as the debts created have been repudiated, or no provisions have been made for the liabilities as they fell due.

These reverses cut short the progress of railroads and canals, with a few exceptions, for a number of years. The people were disheartened, and in many cases disgusted, with their ill success, and became comparatively indifferent to the subject of internal improve-Years elapsed before the western States recovered from the disastrous effects of the previous reverses, in which nearly every individual in the community had been involved. Indeed, it required years to replace the various losses sustained. When this was accomplished, and the lapse of sixteen years had brought a larger population, increased production, and ampler means, the necessity of avenues, suitable to the increasing wants of the country, came to be more and more strongly felt. To meet this demand, the works now in progress These movements constitute the new era in the were commenced. history of our internal improvements. Both the old and the new system had its peculiar characteristics. The first proposed in the newlysettled States either anticipated the wants of the country, or was in advance of the conditions necessary to success. It was borrowed rom the old, and applied to the new States, where an entirely different state of things existed; and was in fact an attempt to apply a principle deduced from known data to circumstances wholly uncertain. The works more recently commenced rest on a very different foundation. They were constructed, and are adapted, to supply wants which actually exist. An unsound policy has given place to one perfectly healthy and legitimate, following requirements, and controlled by wants, the extent and nature of which are well understood and defined.

The railroads in progress and operation in Ohio at the present time make an aggregate length of line of about 3,000 miles; the face of the country favoring their construction in every part of it. These projects are pretty uniformly distributed over the State. There are no lines of pre-eminent importance, because travel and commerce are not, as in some other States, forced into particular channels by the natural configuration of the country. So homogeneous are the physical characteristics of the different portions of the western States, that a detailed description of one line of road will serve to give a distinct idea of all. In this region, local considerations are a sufficient inducement to the construction of numerous and important lines, and frequently a throughroute is made up by a combination of what were in the outset entirely distinct and separate projects. In noticing the roads of Ohio, therefore, an effort will be made rather to give a clear idea of the whole system, than to burden the report with similar details of different projects.

In addition to the roads of exclusively local character, there are numerous great lines traversing the entire State from north to south and from east to west. These great lines or routes are composed as

follows .

Through-lines running from north to south.

1. Composed of the Cincinnati, Hamilton and Dayton, and Mad River and Lake Erie railroads.

2. Composed of the Little Miami, Columbus and Xenia, and Cleve-

land and Columbus railroads.

3. Composed of the Mansfield and Sandusky, Columbus and Lake Erie, and Scioto and Hocking Valley railroads.

4. Cleveland and Wellsville railroad.

5. A fifth line will soon be added to the above, formed by the Cincinnati, Hamilton and Dayton, and the Dayton and Michigan roads, now

in progress from Dayton to Toledo.

6. An additional line will probably be formed without much delay; the lower portion of it composed of the Cincinnati, Hamilton and Dayton, or the Little Miami, the central portion of the Springfield, Mount Vernon and Pittsburg, and the northern division of the Cleveland and Pittsburg, and Akron Branch railroads. It is proposed to extend this branch so as to form a junction with the Ohio and Pennsylvania roads, probably at Wooster.

It is also probable that a railroad will be constructed in a short period from Cleveland to Zanesville, and thence southward to the Ohio river, either at Marietta or Portsmouth. Measures are also in progress to construct a road from Columbus, down the valley of the Scioto to its mouth. The above roads would form two additional north and south lines. Efforts are also making to construct a road from Dayton to Cincinnati, between the Little Miami and the Cincinnati, Hamilton and Dayton. Should they prove successful, a portion of another through-line will be formed.

Through-lines running from east to west.

1. Composed of the Cleveland, Painesville and Ashtabula, and the Junction railroads. This line will follow the lake shore for its whole distance. From Cleveland it will be carried westward by another line composed of a portion of the Cleveland and Columbus, and Toledo, Norwalk and Cleveland. The whole of this last named line will be in operation during the present year.

2. Composed of the Ohio and Pennsylvania, and the Bellefontaine and Indiana roads. Both of these are well advanced towards completion, and it is intended to have them in operation by the first of Janu-

ary next.

3. Composed of the Ohio and Pennsylvania, and the Ohio and Indiana, extending from the western terminus of the former to Fort Wayne, Indiana.

4. Composed of the Steubenville, Indiana and Columbus, and the Columbus, Piqua, and Indiana roads. These will form a continuous line of railroad through Ohio, and also from Philadelphia and Baltimore, to the Mississippi river, having a uniform gauge throughout.

From Columbus an additional line will be formed by means of the Columbus and Xcnia, the Dayton and London, and the Dayton and West-

ern roads.

5. Composed of the Ohio Central and Columbus, and Piqua and Indiana roads. An additional line from Columbus, by the line running through Dayton, is described above.

6. Composed of the Ohio Central, and the Cincinnati, Wilmington

and Zanesville roads.

7. Cincinnati and Marrietta railroad. It is also contemplated to extend this road to Wheeling, thus forming a continuous line from Cincinnati to Wheeling under one charter.

8. Hillsboro and Cincinnati railroad, extending from the Ohio river, opposite Parkersburg, is proposed as the direct continuation of the Baltimore and Ohio railroad to Cincinnati. From the latter place all the roads terminating there will be carried to the Indiana State line,

by the Ohio and Mississippi railroad.

The great lines which have been thus briefly described embrace the most important projects in the State. All of them present the same general characteristics. The results achieved by the lines in operation may be safely predicated of those in progress; and these so well illustrate the value of such works to the community, and as investments of capital, that a detailed account of their objects, cost, and prospective revenues, is unnecessary. Reference to the annexed maps taken in connexion with the history of the roads in operation, will convey a sufficiently correct idea of the various projects that compose the system above described.

There are many roads in progress not particularly connected with the above lines, the objects of which require a brief notice, viz:

Ohio and Mississippi railroad; the leading object of which is the connexion of Cincinnati and St. Louis, the two great cities of the Mississippi Valley, by the shortest practicable line. A glance at the map will sufficiently demonstrate the value of such a work to the commerce and travel of the country. At the present time the communication between these cities is carried on by means of the Ohio and Mississippi rivers, and it is well known that the navigation of these is always seriously obstructed and often totally suspended at certain seasons of the year. At best, the route is tedious and expensive, and uncomfortable at all times, and often very unhealthy. The distance by water is more than twice as great as by land. A direct line of railroad between these great cities is one ranking first in importance among our leading works. It is easy to see that the principal routes of travel must be those connecting great cities by the shortest lines, since the travel, whether of business or of pleasure, necessarily tends from one to another of these. Familiar illustrations of the fact will readily occur to every reader. In going westward, Cincinnati is a necessary point in the route of every traveller. That city, also, is consequently a converging point of the great lines of road leading westward from the eastern cities of Boston, New York, Philadelphia, and Baltimore. After reaching Cincinnati, another leading point toward which travel is attracted is St. Louis. Hence the necessity of the above road, and the important relations it bears to the railroad system of the country, and to the great

The length of this road will be about three hundred and thirty miles. For the greater part of this distance the route is very favorable to cheap construction. Through its whole length it traverses a fertile and productive region, without any outlet except that formed by the Wabash river, which the above road crosses at Vincennes. In addition to its through-travel, this road will be the channel of a vast local traffic; and these, when combined, cannot fail to yield a lucrative income.

The whole road is under contract for completion within two years from the first of January, 1853; and the work of construction is in rapid progress. The project has received the hearty co-operation and support of the cities of Cincinnati and St. Louis, the former having subscribed \$600,000, and the latter \$500,000, to the work, in their cor-

porate capacities, in addition to large private subscriptions.

By the people of Baltimore, the above work is regarded with hardly less favor than by Cincinnati and St. Louis. By the former, it is regarded as the direct extension westward of their great line, which is to be carried forward to Cincinnati by the Hillsboro and Marietta roads. It will be seen that these three roads make up one grand and symmetrical line, of about nine hundred miles, extending from tide-water to

the Mississippi river.

The Hamilton and Eaton road, extending from Hamilton to Richmond, Indiana, though a valuable local work, derives its chief importance from the fact that it constitutes the trunk of two extensive lines in progress, the Indiana Central and the Cincinnati and Chicago roads, both of which connect with it at Richmond. This road has just been opened for travel. The connecting lines above named are in progress—the former for its entire length, and the latter as far as the Wabash

river, at Logansport.

The Greenville and Miami road extends from a point on the Dayton and Western road, about fifteen miles west of Dayton, to Union, the eastern terminus of the Indianapolis and Bellefontaine road. It occupies at present a conspicuous position, from the fact that it is the first Ohio road to form a connexion with those of Indiana. It is already in operation to Greenville, from which point the work is in rapid progress; so that the simultaneous completion of this and the Indianapolis and Bellefontaine road, as far as Union, may be expected by the first of December next, giving an outlet by railroad, from Jeffersonville, (opposite Louisville, Kentucky,) Terre Haute, Lafayette, Madison, and numerous other important points in Indiana, to the railroads of Ohio, and, consequently, to those of the eastern States.

The *Iron* railroad is a short road, connecting the numerous iron manufacturing establishments of southern Ohio with the river. This road will probably be extended northward, to form a connexion with the

Scioto and Hocking Valley railroad.

By the Cleveland and Mahoning road, it is proposed to open a new channel of communication between Cleveland and Pittsburg, through the valleys of the Mahoning and Beaver rivers. One of the principal objects in its construction is to open a new outlet for the coal-fields of the Mahoning valley, from which Cleveland is now chiefly supplied with coal. Measures are in progress to place this work immediately under contract.

A line of road of considerable importance is also proposed, commencing near Mansfield, and extending in a generally northeasterly

direction, through Warren to the Ohio State line, to be continued through Pennsylvania to the Erie road at or near Olean, constituting a new line of communication between the railroads of Ohio and those of the East.

INDIANA.

Population in 1830, 343,031; in 1840, 685,866; in 1850, 988,416.

Area in square miles, 33,809; inhabitants to square mile, 29.23.

The State of Indiana, in emulation of the example of her sister States, commenced, in 1836, the construction of an elaborate system of internal improvement, of which only a comparatively small portion has been accomplished. It consisted partly of canals, and partly of rail-The canals proposed were the Wabash and Erie, the Central, the White Water, the Terre Haute and Eel River, and a canal from Fort Wayne to Michigan City. The railroads proposed to be constructed by the State, were the Madison and Indianapolis, and the

Lafayette and Michigan.

The Wabash and Erie canal is the most important of the works of public improvement undertaken in the State. It commences at the Ohio State line, and extends to Evansville, on the Ohio river, a distance of three hundred and seventy-nine miles, and four hundred and sixtyseven miles from Toledo, on Lake Erie. When completed, it will form one of the longest lines of canal in the world. From Toledo to Fort Wayne it has a depth of four feet, and a width of sixty. Below this point, it is only three feet deep and forty-five wide. Its locks admit boats of a capacity of about sixty tons. It is to be opened for traffic

through its whole length in the ensuing spring.

This work was completed by the State as far as Lafayette, a distance of two hundred and thirty miles from Toledo, and two hundred and forty-nine from the Ohio. When the State became, from the embarrassment of its affairs, unequal to its farther construction, a conditional agreement was made with the bondholders of the State for its completion; the latter reserving the right to resume the work, upon the payment of the sum which the bondholders had agreed to receive in addition to the cost of completing it. It is believed that the canal will again pass into the hands of the State, by the ultimate payment of the whole of her debt. Although the construction of the canal was one of the causes of the financial embarrassments of the State, the work has proved one of the efficient means by which she has recovered from them and reached the high position she now holds as a leading State in the confederacy. As far as excellence of soil is concerned, no State possesses superior resources. The canal opened an outlet for her products, and gave her the use of means, which up to its opening lay dormant, from the difficulty and cost of reaching a market. The rapid increase in the exports of Indian corn will illustrate the value of improvements which facilitate transportation. The exports of this article from the Wabash valley, from insignificance, rose to millions of bushels in a very few years after the opening of the canal; and Toledo, its terminus on Lake Erie, is now the chief port of export for this article.

Railroads in Indiana.

The failure of the State to carry out her proposed system of public improvements, and the financial troubles in which she became involved, put an end for a time to all enterprises of the kind, whether of a public or private character. Some years were required to make good the losses resulting from the great expansion of 1836-'37, and to allow the public mind to recover from the discouraging influence of the reverses sustained. As in Ohio, lapse of time brought greater means, a more enlarged capacity to superintend and execute works of magnitude, better defined objects, and a traffic necessary for the support of extensive lines of improvement. The system proposed by the State was, in fact, in advance of the conditions required to sustain it. It anticipated a state of things which did not exist. In commencing the new movement, which has resulted so successfully, her people have followed and not anticipated their wants. They have taken up only such enterprises as were sanctioned by the clearest evidence of their necessity, and which could command sufficient support to insure The result has been uniformly favorable; and the State of Indiana, which but two or three years since had hardly a mile of railroad within her limits, now takes rank with our leading railroad States, and is soon to be third or fourth in the extent of her works. Her credit and means have advanced with equal pace, and, though one of the new States, she already occupies a prominent position in

There is no State in the Union that presents so symmetrical a system of railroads as Indiana. Nearly all her great lines radiate from the geographical centre and capital of the State. By this means they are all brought into intimate business relations with one another, an arrangement which must promote to a great degree the advantages of each. Indianapolis is soon to be the point of intersection of eight important roads, viz: the Jeffersonville, Madison and Indianapolis, Lawrenceburg and Indianapolis, Central, Bellefontaine, Peru, Lafayette, Terre Haute, and the New Albany and Salem roads. All these roads will be carried, in their respective directions, to the boundary lines of the State. Their focus is in the great lines of railroad running from the eastern States to the Mississippi river, and from the Ohio to the great lakes. It is impossible to conceive a system better devised for the promotion of the interests of the people of the State, or of the

railroad companies.

All of these great lines, while they have their appropriate and ample belts of fertile, productive and well-settled territory for local traffic, occupy important routes for through-business and travel. The Jeffersonville opens a communication between the central portions of the State with Louisville, the second city of the Ohio valley; the Madison and Indianapolis forms a similar connexion with Madison, an important town, favorably situated on the Ohio river for commanding the trade of the interior; the Lawrenceburg forms the connecting line between Indianapolis and Cincinnati; the Central is the direct extension, westward, of the leading lines running through central Ohio; the Indianapolis and Bellefontaine opens the outlet to the great lakes

and the lines of road traversing northern Ohio; the Peru connects the capital and central portions of the State with the Wabash canal, which is now the great commercial avenue for the State; the Lafayette connects the most important town in the northwestern part of the State with the central portions, and will soon constitute a link of the great line extending to Chicago; the Terre Haute is the connecting line between the railroad system of the State and St. Louis, and the railroads of Illinois; the New Albany and Salem will connect the cities of Louisville and New Albany, and the lower portions of the State, with the interior, by a line lying to the west of the Jeffersonville road, and will also constitute an unbroken line of some two hundred and eighty-five miles between Lake Michigan and the Ohio river.

With the exception of the New Albany and Salem, all the above roads having the same general direction may be said to be complements of each other. The Central and the Terre Haute roads constitute, in a business and commercial point of view, one line; so with the Lawrenceburg and Lafayette, and the Jeffersonville and Peru. In this manner, a system of railroads will be found adapted to promote the highestgood of all the members to it, and to develop to the utmost the wealth and resources of the State, and at the same time fitted to become a portion of a still wider system embracing the whole country.

The system we have described occupies an area in the central portions of the State about one hundred and fifty miles square. In length of line and relative importance there is great uniformity in the various roads that compose it. They all occupy favorable routes; are all calculated to benefit each other; and will be rivals for the same trade in a slight degree only. The northern and southern portions of the State will also be well supplied with railroad accommodations. In the southern portion, the most important road in progress is the Ohio and Mississippi, which traverses it from east to west. This work has already been sufficiently noticed under "the railroads of Ohio." The southwestern corner of the State is traversed by the Evansville and Illinois road, which is already completed to Princeton, and is in progress to Terre Haute. When this last point is reached, a connexion will be formed with the Central system, which will be brought into communication with Evansville, the most important and flourishing town upon the lower Ohio, and also with a railroad now in progress leading from Henderson, upon the opposite bank of the river, in Kentucky, to Nashville, Tennessee, in order to connect with the roads terminating in that city.

The New Albany and Salem road is an important work for southern Indiana. At or near Orleans it will form a connexion with the Ohio and Mississippi railroad, and will thus constitute a convenient and direct route between the cities of New Albany, Louisville, and St. Louis. This road will also supply railroad accommodations to an extensive and important, but comparatively isolated portion of western Indiana. In the northern part of the State, it will perform a still more important office in opening, and that shortly, a communication between the central and northern portions of Indiana and the city of Chicago. The line of this road extends from New Albany to Michigan City, (with a branch to Indianapolis) and thence to Chicago, making its entire length about three hundred and fifteen miles. A part of this line will be composed

of the Crawfordsville and Wabash road, which has been merged in the former. Three distinct portions of it are in operation, viz: from New Albany to Orleans; from Crawfordsville to Lafayette; and from Michigan City to Chicago. The unfinished portion is well advanced, and much of it will be finished before 1853, when the whole will be com-

An important work in the northern part of the State is the Indiana Northern road, and which will be noticed with the Michigan Southern road, of which it forms a part. These two roads constitute a leading line, as they unite the most southerly portions of Lakes Erie and Michigan, two important points in the geography and commerce of the country. The great lakes occupy a basin extending 500 miles from north to south, and oppose an insuperable barrier to the direct extension westward of the lines from the northern States. All these are deflected southwardly, to avoid Lake Michigan. Such is the fact with a large number of roads in reference to Lake Erie; consequently, a line connecting the southern shores of these lakes cannot fail to be a work of the first importance, not only to the travel and commerce of the country, but to its business and revenues. The great favor with which this project is regarded by the public, is undoubtedly due in part to the above considerations. The Northern Indiana road traverses a portion of the State celebrated for its fertility, which will secure to it a large local, as well as through traffic.

Among the proposed roads, probably the most important is the Wabash Valley line, which is to extend from Toledo, Ohio, to the boundary line of Illinois. A glance at the accompanying map will convey a better idea of the value of such a work, and the intimate relation it will bear to the commerce and travel of the country, than any attempted description. It will be seen that Toledo is the most salient point on Lake Erie, for all the country lying to the west and southwest of it. It has already become a place of great commerce, by means of the Wabash canal, and must always be a leading point in the routes both of business and travel. A line of railroad connecting Toledo and St. Louis would coincide for a long distance with the course of the Wabash river. The valley of this river is celebrated for its fertility, and is filled with large and flourishing towns, which owe their existence and traffic to the caual, and are the depôts of trade for the surrounding country. In this manner an ample business has been already developed for the support of a first-class railroad.

Another important project is the projected road from Fort Wayne to Chicago. This is proposed as the legitimate extension of the Ohio and Indiana railroad, which has already been noticed under the roads of Ohio. These roads would constitute a direct line between the great city of the Northwest and the railroads of central Ohio. The importance of such an avenue must be apparent upon the slightest examination of the probable routes of travel and trade in the West. The great tide of emigration which is flowing thither from the middle States and Ohio is directed upon Chicago, which is the great point of its distribution over the unoccupied lands of the new States. This city must also become an important business and commercial point for all the western States. The above line is also regarded as the appropriate extension to Chicago

of the great Philadelphia and Baltimore lines, which will be extended to the eastern terminus of the former, in central Ohio.

An important road is in progress, commencing at Richmond, the western terminus of the Dayton and Western, and Hamilton and Eaton roads, and extending to the Wabash river, at Logansport, which it is intended ultimately to carry forward to Chicago. As a through-route, its object is to connect Cincinnati and Chicago. Locally, it may be regarded as a Cincinnati road, penetrating a very rich and productive section of the State. It is under contract from Richmond to the Wabash, by way of Newcastle. It will be seen that, for the country traversed, it will constitute a very direct and convenient outlet to its great market, Cincinnati; and it is so situated as to command, to a great extent, the traffic of the territory lying to the north of its line. The route proposed by this road, it is believed, will constitute the shortest route between Cincinnati and Chicago.

It is also proposed to construct a branch from the Jeffersonville road, commencing at or near Columbus, and extending as far north as Union, the eastern terminus of the Indianapolis and Bellefontaine road, and probably to Fort Wayne. This extension is favored by the city of Louisville, Kentucky, as affording means of connecting herself with the roads running east and west through Ohio, and of securing a portion of their trade and travel, which otherwise would be drawn to Cin-

cinnati.

The branch to Fort Wayne would probably run through Muncie, on the Bellefontaine road, and in this manner a connexion would be formed between Fort Wayne and Indianapolis. The route for such a road has been surveyed and found favorable, and active measures are in progress to raise the necessary means for its construction.

The above are the leading projects in the State. There are several others of minor consequence, among which may be named the Shelby-ville, Knightstown, and Rushville branches. There are others proposed, but not sufficiently advanced to call for particular notice.

MICHIGAN.

Population in 1830, (Territory,) 31,639; in 1840, 212,267; in 1850, 397,654. Area in square miles, 56,243; inhabitants to square mile, 7.07.

The State of Michigan, so early as 1836, while in her very infancy, matured and commenced an elaborate system of internal improvements, by means of railroads and canals. Of the latter none have been constructed: in fact, they were hardly commenced. Of the great lines of railroads, two, the most important, have been completed, with some de-

viation from the original plans.

1. The Michigan Central railroad commences at Detroit, and runs generally in a western direction, to Lake Michigan. It is then deflected southward and carried around the southern shore of Lake Michigan to Chicago, the whole length of line being 282 miles. It was completed to Lake Michigan, at New Buffalo, two or three years since, but was extended to Chicago within a few months only. This work is in every point of view most important, saving the necessity of

a long and expensive detour by way of Mackinaw, in travelling from east to west, and having proved of great convenience to the travelling and business public. This road was commenced by the State of Michigan, under whose auspices about 125 miles of the eastern portion of it were constructed. The State becoming embarrassed in consequence of the injudicious management of her affairs, the road was sold to a private company in the latter part of 1846, by whom the work of construction was immediately resumed, and prosecuted with great vigor to its termination, at Chicago. Since its completion it has proved very productive. Its importance as a great through-link, between the East and the West, will be greatly increased by the construction of the great Western railroad of Canada, which will be completed during the coming year. When that road shall be opened, a direct route, in connexion with the above roads, will be afforded to the travel from the eastern States to Chicago, the great central point of the northwestern trade and travel.

2. Michigan Southern railroad. Like the Central road, the Michigan Southern was formerly a State work, and as such, was opened to Adrian, 36 miles from Monroe, its eastern terminus. On the failure of the State, its farther progress was abandoned; but after a lapse of some years it was sold to a private company, by whom it has, in connexion with the Indiana Northern road, been recently extended to Chicago. The distance between the termini is 243 miles. It was originally intended to carry this road through the southern tier of counties to New Buffalo; but this plan was abandoned by the present company, and, after running about 130 miles in Michigan, the line was deflected into Indiana, and on this portion constructed under a charter granted by that State. This road is also connected with Toledo, on Lake Erie, and will be shortly connected with the railroads of Ohio; and it may be confidently expected, that by the first of January next a continuous line of railroad will exist from New York to Chicago, a distance of nearly 1,000 miles. The Michigan Southern and Indiana Northern may both be regarded as belonging to one interest, and as forming in fact one line. Though recently opened for business, its prospects are very favorable. In the hands of its present managers, it has been prosecuted with energy and success; and, as the general direction of its line coincides with the southern shores of Lakes Erie and Michigan, it is difficult to find a more important line of road. Its success since its opening fully justifies the sagacity and foresight of the parties by whom its extension was planned and executed.

The local trade both of the Central and Southern roads is supplied by an ample belt of fertile, well-settled and highly productive country, which alone would yield sufficient support, entirely independent of through-traffic. Both are intended to form important parts of independent through-routes from Boston and New York to Chicago—one on the north, the other on the south shore of Lake Erie—and must become intimately identified with important routes of commerce and

travel.

A railroad from Green Bay to Lake Superior is an important project, and will prove of great convenience to the mining districts on the

southern shores of the latter, which for a considerable portion of the year are inaccessible. This work is indispensable to the proper development of the vast mineral resources of that great region. Its route is the best that could be adopted for immediate exigencies. The line of the road is under survey; and it is believed that its construction will be immediately commenced, an amount of business sufficient to furnish a considerable traffic being already developed on its northern terminus.

A road is also proposed, and will undoubtedly in a few years be constructed, extending from Detroit to Toledo, with a view to enable the great Western railroad of Canada to form a connexion with the lines

of the United States.

ILLINOIS.

Population in 1830, 157,445; in 1840, 476,183; in 1850, 851,470. Area in square miles, 55,405; inhabitants to square mile, 15.36.

There is a remarkable similarity between the histories of the States of Indiana and Illinois, so far as their respective systems of internal improvements are concerned. Both systems were commenced about the same period; both States became involved in similar financial embarrassments; and both abandoned the prosecution of their respective works—most of which have been either discontinued entirely, or have passed into private hands. While this parallel exists between the two, Illinois labored under the disadvantage of being a much newer State, possessing smaller means, and consequently requiring a longer time to recover from her embarrassments. As in her first efforts she imitated the examples of Ohio and Indiana, so she is again following closely in their footsteps, in the new career upon which she has just entered.

The Illinois and Michigan canal. This canal is almost the only improvement which Illinois has to show for the vast debt she has incurred for her public works. It has passed into the hands of her bond-holders, and has been completed by them in a manner very similar to its kindred work, the Wabash and Erie canal. It extends from Chicago to Peru, at the head of navigation on the Illinois river. It was commenced in 1836, and completed in 1848. It is 60 feet wide, and 6 feet deep. The locks have a capacity for boats of 150 tons. Its length is 100 miles, and its summit-level is 8 feet only above Lake Michigan. The original plan was to feed it directly from the lake; but as this involved

a very large expenditure, it was abandoned.

The canal was opened in the fall of 1848, since which time it has done a successful business. Like the Wabash canal, its direction coincides with the usual route of commerce and travel. It is hardly possible to conceive a more favorable route for such a work. It connects the lakes with the navigable waters of the Mississippi at their nearest approach to each other. Between these great water-courses an immense trade must always exist. The former penetrates high northern regions, and the latter traverses a country abounding in many tropical productions. With the canal they constitute a natural route of commerce; and as the eastern are the great markets for the products of the western States, this work must form one of the leading channels of commerce between these two divisions of the country. All that was

wanting to secure a large portion of the products of the Northwest to the lake and Erie canal routes was an outlet for them. This the Illinois canal first supplied. The effect of its opening has been, in fact, to turn an immense tide of business from its old channel, by the Mississippi river, to the new one by the lakes.

The influence of this work is already seen in the impulse it has given to the growth and trade of Chicago; in the change it has effected in the direction of the products of Illinois, and other western States, to market, and of merchandise imported into the same sections of country.

Were its capacity equal to the business which will soon be thrown upon it, and were the Illinois and Mississippi navigable at all seasons of the year, there can be no doubt that the canal would be able to engross a large portion of the trade of the country west and southwest of Lake Michigan, and north of the Ohio and Missouri rivers. As it is, it is preparing the way for a great diversion of that trade to the lakes and the northern route. The railroads now in progress in Illinois will soon come to its aid, and supply the want of an uninterrupted navigation in the western rivers.

Railroads in Illinois.

The system of improvements first proposed by the State in eighteen hundred and thirty-six contemplated a very large number of railroads, traversing every portion of the State. The more important of these were the Illinois Central, the Edwardsville and Shawneetown, the Quincy and Danville, the Alton and Terre Haute, the Mount Carmel and Alton, and the Peoria and Warsaw roads. After the expenditure of large sums upon these lines they were all ultimately abandoned, and the improvements made have mostly fallen into the hands of private companies. No portion of any of the lines commenced has been opened, with the exception of the link in the Quincy and Danville railroad, extending from Springfield to the Illinois river. With a few exceptions, the work done upon the various proposed lines is of little value to the companies which have resumed their construction.

The recent railroad movement in Illinois dates only two or three years prior to the present time. It has the same general character as those already noted in Ohio and Indiana. The construction of roads in this State follows instead of anticipating the wants of the community, and proceeds in a legitimate and business-like manner, which promises

the most satisfactory results.

The State of Illinois is one of the largest States of the confederation in area, and probably is unsurpassed by any in the extent of her resources. Over her whole surface she has a soil of inexhaustible fertility, a large portion of which covers vast beds of coal, in connexion with an abundant supply of iron ore. The richness of her lead mines is well known. Her commercial advantages are equal to those of any western State. Upon her western boundary is the Mississippi river; upon her southern, and a large portion of her eastern border, are the Ohio and Wabash. The northern part of the State is washed by Lake Michigan, which is accessible by ships of three hundred tons burden from the ocean. Her central portions are penetrated by the Illinois river, one of the most favorable in the West for the purposes of

navigation. All these water-courses afford convenient outlets for the products of her soil, and contribute incalculably to her prosperity.

The city of Chicago has now become, and must always remain, the emporium of the State. It is the great pivot upon which the rail-road system of the State turns. Most of the lines in progress are constructed with express reference to this point. All running in a northerly and southerly direction look to that city as the northern terminus. The same may be said of those traversing the northern portion of the State in an easterly and westerly direction. The principal exceptions to this rule are the Ohio and Mississippi railroad, running from Cincinnati to St. Louis, the Terre Haute and Alton railroad, and the proposed roads from Peoria and Springfield to Lafayette, in Indiana. There will undoubtedly be other roads constructed in different portions of the State, having no direct reference to Chicago; but such

only are referred to as are already in progress.

The great line, traversing the State from north to south, will be the Illinois Central railroad. This road was commenced by the State in 1837, but was soon abandoned, with all other projects of a similar character. It commences at Cairo, at the junction of the Ohio and Mississippi rivers; and, after running in nearly a direct northerly course for about 120 miles, divides into two branches, one branch running to the extreme northwest corner of the State, by way of Peru, on the Illinois river; and the other in a very direct course to Chicago. Its whole length will be 700 miles—a greater extent of line than any other chartered line in the United States. The construction of this road is secured by recent munificent grants of lands by the general government, which amount to 2,500,000 acres, most of which lie upon the immediate line of the road. The road will be completed in about four years from the present time; and, when constructed, will constitute a grand central avenue through the State, from north to south, which must in the end become the trunk of many connecting and dependent roads.

The progress made by the Central road, and the certainty of its early completion, has given a great impulse to the public sentiment of the State in favor of similar projects. Numerous lines are in progress or projected in every portion of it. The line itself will supply a vast amount of railroad accommodation to the people of Illinois. As a State work it is a magnificent project. It is equally conspicuous as a part of a great national line. In connexion with the Mobile and Ohio railroad it forms a direct and uniform line of railroad, extending north and south for a distance of more than 900 miles, traversing, in this distance, great varieties of climate and production. taking the above route a traveller may pass from latitude 29° to 42° north in a little more than 24 hours. A road possessing such advantages cannot fail to command an immense traffic and travel, in addition to its local resources.

With the exception of the Central railroad, most of the great routes of travel and commerce through the State must run from east to west. The more important of these are the following:

Galena and Chicago.—This is the longest line of railroad in operation in the State. It is now completed to Rockford, a distance of 95 miles. At Freeport, 124 miles from Chicago, it will form a junction with the Illinois Central road, by which it will be carried forward to Galena, 180 miles from its eastern terminus. This road has been one of the most successful and productive works of the kind in the United States. It was not embraced in the original system marked out by the State; and affords a striking illustration of the wisdom of adapting railroad projects to the known wants of business, rather than of attempting to anticipate such wants by the construction of a system

founded on doubtful contingencies.

The easterly portion of the above line forms the trunk of two other roads, one of which, the St. Charles branch, extends from its junction with the Galena and Chicago road, in a very direct course, to the Mississippi river, at Albany; and the other, the Aurora branch, which is under contract, to Galesburg, (the northerly point on the Peoria and Oquawka railroad,) a distance of about 125 miles. This road will be carried still further, in a southwesterly direction to Quincy, by means of the Central Military Tract and the Northern Cross roads, also in progress of construction. The distance from Quincy to Galesburg, by the above road, is about 120 miles, making the entire distance between Chicago and Quincy about 280 miles. It is understood that the Michigan Central railroad will extend efficient aid to the last named line.

The Galena and Chicago railroad has exerted a very decided influence in promoting the growth of the city of Chicago, which advanced

in population from 4,470 to 40,000 from 1840 to 1852.

Rock Island and Chicago railroad.—This road follows the valley of the Illinois and its branches, from Chicago to Peru, a distance of 100 miles; from which place it takes a more westerly direction, to Rock island, a distance of eighty miles, making the whole length of line 180 miles. The first division to Peru will be completed by the first of January next, and the whole in season for the winter business of 1853. It is, in many respects, an important line. It will connect Chicago with the head of navigation on the Illinois river, between which points an immense travel and trade must always exist. It has the great advantage of striking the Mississippi river upon the same parallel of latitude with the southern shores of Lakes Erie and Michigan, and at the best point for bridging that river below St. Anthony's Falls. island is very nearly in the same parallel with Council Bluffs, the proposed point for carrying a railroad across the Missouri, running westward toward the Rocky mountains. The grade and curves of this road are favorable, and it will undoubtedly become one of the most important avenues of trade and travel extending westward from Chicago. The means for its construction are furnished chiefly by eastern capitalists, who took up the project on account of the strength of its position.

Peoria and Oquawka railroad.—The next line of railroad traversing the State, from east to west, is the Peoria and Oquawka, commencing at the Mississippi river opposite Burlington, the largest and most commercial town in lowa, and running to Peoria, on the Illinois river. The distance between the two points is about 80 miles. From Peoria it is proposed to extend this road easterly, striking the Wabash valley at Lafayette, or at Logansport, or at both these places. The first division only of this great line, extending from the Mississippi to the

Illinois, is in progress. But when the importance of the proposed extension is considered, and the relation it will sustain to the railroads of the States lying eastward, no doubt can be entertained of its commence-

ment and construction at no distant day.

Northern Cross railroad.—This name is usually applied to the line of road commencing at Quincy, on the Mississippi river, extending to the Indiana State line near Danville, Illinois, and running through Naples, Springfield, and Decatur. This is one of the projects embraced in the State system of improvements; and upon it a much larger amount of work was done than upon any other line. The work executed by the State has since passed into the hands of private companies, by one of which the portion of the line extending from Springfield, the capital of the State, to the Illinois river, and commonly known as the Springfield and Meredosia railroad, has been completed. The portion of the above line from Quincy to the Illinois is also in progress, by another company. From Springfield eastward, the work of construction is also about to be resumed. From Decatur, two branches will probably be constructed, one extending to Terre Haute, and the other in a more northerly direction towards Lafayette. It may be stated, that the westerly division of this road, extending from Quincy to Clayton, will form the base of the line of railroads now in progress to Chicago, under the title of the Central Military Tract and Aurora Branch railroads, already referred to.

Alton and Sangamon railroad.—This important line of railroad extends from Alton to Springfield, the capital of the State, a distance of 72 miles. It has been recently opened for business. It forms an appropriate outlet from the central portions of the State to the Mississippi river. Its local consequence is greatly increased by the prospect of its becoming a link in the line of railroad from Chicago to Alton and St. Louis. By reference to the annexed map, it will be seen that Springfield lies very nearly on a direct line between the above cities. The division of this line from Springfield to Bloomington is already under contract, from whence it will be carried direct to Chicago, or unite with the Rock Island road at Morris. This connexion would form a very direct and convenient route between the termini named. The cities of Chicago and St. Louis will probably always remain (with the exception of Cincinnati) the great cities of the West; and the line that will connect them possesses, to a certain extent, a national importance. The fact that it connects Lake Michigan with the Mississippi on a great and convenient route of travel between them, cannot fail to give it rank among our leading works.

In the central portion of Illinois are several lines having a general eastern and western direction. Among the more important of these may be named the Western and Atlantic, the Terre Haute and Alton, and a road from Terre Haute to Springfield, the capital of the State.

The Atlantic and Mississippi road is now the only link wanting in a great chain of railroads extending from St. Louis to the Atlantic. Its line is identical with the convenient route between that and all the leading eastern cities. It may be regarded as the Mississippi trunk of all the roads in central Ohio and Indiana running east and west. The importance of this road to the general system of the country is well

shown by the accompanying map. The city of St. Louis is one of the great depots of trade in the interior, between which and the Atlantic cities there exists a vast commerce and travel. As a through-route, there is none in the country offering better prospects of a lucrative traffic. It is regarded with great favor by the public, and there can be no doubt that its stock will be eagerly sought by eastern capitalists. The whole line will be placed immediately under contract for completion, within the shortest practicable period.

The country traversed by the road is a very fertile portion of the State, and will supply the usual amount of local traffic for a western

road.

Terre Haute and Alton railroad.—This project has the same general direction and object with the one last described. One of the leading objects in its construction is to promote the increase of the city of Alton, its Mississippi terminus. It traverses a fertile and well cultivated portion of the State, and is sufficiently removed from the Mississippi and Atlantic to command a large local trade. The whole line of this road is under contract for completion within three years from this time, and several portions of it are in progress.

The proposed road from Terre Haute to Springfield, it will be seen, is an important link to connect the roads of Indiana with the Central Illinois and with the Northern Cross roads. Measures are in progress to place this road under contract, which promise its speedy com-

pletion

A railroad is also proposed from Mount Carmel, on the Illinois river, to Alton. This is one of the projects which were included in the State system of 1837. A portion of the eastern end of this line was graded by the State. These improvements have gone into the hands of a private company, by which the road will be completed from Mount Carmel to Alton, a distance of about twenty miles. This road will probably be extended to Princetown, Indiana, in order to form a connexion with the Evansville and Illinois road.

The Ohio and Mississippi road, one of the most important projects

in the State, has already been noticed under the head of Ohio.

MISSOURI.

Population in 1830, 140,455; in 1840, 383,702; in 1850, 382,043.

Area in square miles, 67,380; inhabitants to square mile, 10.12.

No effort was made in this State toward the construction either of railroads or of canals till within a recent period. This was partly owing to the fact of its being a frontier State, in which the necessity of railroads is less felt, than in those so situated as to become thoroughfares for their neighbors; and partly to the sparseness of the populalation in nearly every portion of the State. At the session of the legislature of 1851, the State agreed to lend its credit to two great lines of railroad: the *Pacific* road, commencing at St. Louis, and running to the west line of the State, on the south side of the Missouri river; and the *Hannibal and St. Joseph's* road, extending from the Mississippi to the Missouri, on the north side of the latter, and connecting the places named. The amount of aid voted was \$2,000,000 to the for-

mer, and \$1,500,000 to the latter; the loans not to become available until each company should have obtained \$1,000,000 of private stock, and then only so fast as equal portions of stock subscriptions should be paid up and expended. When either company shall have expended \$50,000, they are entitled to call upon the State for its bonds to an equal amount, as security for which, the latter holds a lien upon the road and all the property of the companies. The State aid will probably be increased to meet one-half the cost of both roads. Although local considerations are the primary motive in the construction of the above roads, the projectors look to their ultimate extension to the Pacific ocean. Although their eastern termini are somewhat widely separated, they approach each other as they proceed westward, and would meet beyond the Missouri river, if prolonged in their general As local roads, they are of great importance. They will, when completed, add much to the convenience of the emigrant and pioneer, by materially reducing the long and tedious journey on footfrom the Mississippi to the western boundary of our settled territory. In connexion with the great lines of railroad lying to the east, they would form a part of a line across the continent, from one ocean to the Every mile we advance westward, is so much gained toward the accomplishment of a work destined to be the crowning achievement of modern energy and science. Private enterprise will soon have accomplished so much, as to leave the portion that must devolve upon the general government a comparatively easy task. If private companies with their unaided means can accomplish more than half of this work, certainly what remains is not of such vast magnitude, as to intimidate the collective energies and power of a great nation.

Rapid progress is now making in the construction of the above roads;

and there can be no doubt of their speedy completion.

In addition to the original object of the Pacific railroad, its eastern portion will probably be made the trunk of a branch extending to the mineral districts of the southwestern portions of the State, which are extremely rich in iron, lead, and copper. These great resources still remain undeveloped, from the want of a suitable outlet, which the above road will create; and measures are now in progress for its construction. It is also proposed to make this branch a portion of a great line from St. Louis to New Orleans, upon the west side of the Mississippi. This latter project is attracting much attention, and though the means do not now exist for its construction, the eventual realization of this project can hardly be doubted.

WISCONSIN.

Population in 1840, (Territory,) 30,945; in 1850, 305,191. Area

in square miles, 53,924; inhabitants to square mile, 5.65.

The State of Wisconsin, though in 1840 it numbered only 30,000 inhabitants, is already in possession of a first-class line, a considerable portion of which is in operation—the Milwaukie and Mississippi railroad. This line of road commences at Milwaukie, the leading town in the State, and extends in a westerly direction, running through the capital to the Mississippi, at Prairie du Chien, a distance of about 200

miles. It is already in operation to Whitewater, a distance of 50 miles, and will be completed to Rock river during the coming autumn. was commenced in 1850, and owes its birth and prosecution to the enterprise and capital of the city of Milwaukie. It is the most northerly railroad yet projected, running from Lake Michigan westward, with the advantage of offering the cheapest outlet for all the country lying north and west of its terminus on the Mississippi river. It traverses a most beautiful region of country, and bids fair to become a successful and lucrative road, as it occupies a favorable route, and will be constructed at low cost. It is distinguished by being constructed at a much earlier period in the history of a State than any similar work; and it is certainly a wonderful illustration of the rapid growth of the Western country, that in the short space of ten years a wilderness has been reclaimed and brought into high cultivation, and been filled with a thriving and prosperous people, in possession of all those contrivances in aid of labor and in promotion of social and material advantages, the results of modern science and skill, and of which many richer and older communities have not as yet availed themselves. As the tide of emigration moves westward, it carries with it all the distinguishing characteristics of the eastern States; so that a person may travel to the very verge of western settlement without being conscious of any change, save in the natural features of the country.

Another important line projected in Wisconsin is the Fond du Lac and Rock River Valley railroad, extending from Fond du Lac, on Lake Winnebago, in a southwesterly course to Janesville, whence it takes a The entire length of this road is about southeasterly course to Chicago. 215 miles. It is in course of construction at both ends, and a portion of the line, near Fond du Lac, will soon be in operation. From Fond du Lac, it is in contemplation to extend a branch to the western extremity of Lake Superior, for which a favorable route is said to exist. This extension would even now be of great utility in giving access to the vast extent of fertile country lying west of the great lake, which is becoming an attractive field for emigrants; and should Congress favor this proposed line by a grant, its immediate construction would be the result. Such a road will ultimately be found indispensable to the settlement of a large portion of the Minnesota Territory, and will probably receive encouragement from the general government, for the purpose of promoting this object and opening to a market an important and valuable portion of its domain.

The whole route of the Fond du Lac and Rock River Valley railroad runs through an extremely fertile country. One of the objects of the road, from which it will derive lucrative employment, is in the distribution over the State of the lumber which grows upon the rivers flowing into Lake Winnebago. Works are now in progress, which will soon allow vessels navigating Lake Erie to reach Lake Winnebago, adding much to the business and prosperity of the above road.

Works are also in progress for uniting the Wisconsin and Fox rivers by a canal, which shall admit steamboats of the capacity of those navigating the rivers. By reference to the maps it will be seen that these rivers approach each other very nearly, the distance between them being less than two miles, and the separation consisting only of a

strip of low land, submerged at high water, and allowing the passage of small boats from one to the other. This canal is nearly completed, and when opened will allow the passage of steamboats from the lakes

to the Mississippi river.

A railroad is also proposed from Dubuque, on the Mississippi river, to Lake Michigan, passing through the southern tier of counties in the State. Such a road would make the town of Janesville a point from which it would be carried forward, by roads in progress, to the towns of Chicago and Milwaukie.

IOWA.

Population in 1840, (Territory,) 43,112; in 1850, 192,214. Area in square miles, 50,914; inhabitants to square mile, 3.77.

No railroad has yet been commenced in Iowa, though several companies have been organized for their construction. It will be recollected that some ten years since, the State had only about 50,000 It has now probably about 300,000, most of whom are settled in the neighborhood of navigable rivers; and on this account the necessity of railroads has not been so much felt as it would otherwise have been. As Iowa is one of the most fertile States of the West, ranking among the first in extent and natural resources; and as the surface of its soil is well adapted to the cheap and expeditious construction of railroads, and the State is filling up with great rapidity, with an enterprising and vigorous people, we cannot expect that she will long be behind her sister States in the construction of works so important to the prosperity and progress of any people.

The most important of the proposed roads in Iowa are the lines leading from Rock Island to Council Bluffs; from Dubuque to Keokuk; and from Burlington to the Missouri river. The first of these extends west upon the parallel of the southern shore of Lake Michigan. island is believed to be the best point for the passage of the Mississippi river, and Council Bluffs for that of the Missouri. These facts show

the prospective importance of this line.

The object of the Dubuque and Keokuk line is to cut off the bend in the Mississippi river, and to avoid the rapids, which are a serious

obstruction to navigation.

The project from Burlington to the Missouri has the same general object as the Rock Island and Council Bluffs road. No one of the above projected improvements has been commenced, though measures for the purpose are in progress.

RAILROADS IN THE BRITISH PROVINCES.

As the provincial railroads are to be intimately connected with those of the United States, a brief notice of the former will be appropriate to

this report.

A few railroads only have been constructed in the British provinces, for the reason that these works were not particularly required to aid in the movement of property; the numerous rivers, lakes, and bays supplying cheap and convenient media for this purpose. The principal settlements of New Brunswick and Nova Scotia are upon the immediate borders of navigable tide-water. The narrow belt of arable land to which the population of Canada is confined is traversed for its entire length by the lakes and the St. Lawrence river. The various water-courses described will continue to be the principal channels and routes of commerce, even after the construction of railroads parallel with them.

The roads in progress and contemplated in the provinces, therefore, are, with one or two exceptions, being constructed chiefly with a view to passenger traffic. They are fortunate, however, in the fact that their lines correspond to routes over which already passes a large travel, and which the roads themselves must immensely increase.

Of the roads under consideration, the most important, in some respects, is the St. Lawrence and Atlantic, extending from Montreal to the boundary line of the United States, a distance of about 130 miles, when it connects with the Atlantic and St. Lawrence railroad, extending to Portland. This work was briefly described in the notice of the roads in the State of Maine. The original object in its construction, as far as the Canadas were concerned, was to open a winter outlet for the trade of Montreal, and in this manner to add to the business of the Canadian canals, by which unbroken navigation from the upper lakes is secured to the city. These works have, to a certain extent, failed to realize their highest usefulness, or to justify public expectation, for want of an avenue to the Atlantic coast, other than through the Gulf of St. Lawrence. The navigation of the St. Lawrence being closed for a considerable portion of the year, the late receipts of produce have to be held till spring, before they can be sent to a market. losses arising from this delay, embracing the charges for warehousing, interest, insurance, &c., and the decline in the price of the staple, which is often ruinous to the holder, have tended to turn this trade into other channels, to restrict the business of this route, and to increase that of its great rival, the Erie canal. To remedy this evil, by securing an uninterrupted communication at all times with navigable tide-water, is one great object of this proposed road. There can be no doubt that this, or a work similar in character and objects, is necessary to secure all the results anticipated from the canals.

The St. Lawrence and Atlantic road is in operation to Sherbrooke, a distance of 91 miles from Montreal, and is in a state of such forwardness that no doubt is entertained of its completion by July next.

The Quebec and Richmond railroad is a work designed to place the city of Quebec in the same relation that Montreal sustains to the St. Lawrence and Atlantic railroad; and at the same time with the latter, to unite these cities by a continuous railroad line. From the isolated position of Quebec in the winter season, this road will prove a great benefit to her commerce, as well as a great convenience to the travelling and business community. Its entire line is under contract, to be completed early in 1854.

Another proposed work attracting great interest in Canada, is the line extending from Montreal to Hamilton, following the immediate bank of the St. Lawrence, and of Lake Ontario. This road would run parallel with the great route of commerce in the Canadas, is required by the wants of travel, and in the winter season would be the channel

of a large trade. It must at all seasons of the year command a lucrative traffic from the numerous cities and villages through which it would pass. This work has now come to be considered indispensable to the interests of Canada, and is to receive such aid from the government as will secure its speedy construction. It is to be placed under

contract without delay.

The Great Western railroad, traversing the peninsula of Canada, is one of the most important works in the provinces. It extends from Niagara Falls, by way of Hamilton, to Windsor, opposite Detroit, a distance of two hundred and twenty-eight miles. It traverses a country, the fertility and productiveness of which is not exceeded by any portion of Canada or the United States. Its chief public attractions, however, are the relations it bears to railroads in the United States. It will be seen by the accompanying map, that for the railroads of New England and central New York, it cuts off the long circuit by way of the southern shore of Lake Erie, between the East and the West. On this account, the road has received important aid from parties in the United States, interested in having it opened. Ample means are provided for this work, and it is expected that it will be completed by the first of January, 1854.

The Buffalo and Brantford railroad was projected for the purpose of securing to Buffalo the trade of the country traversed by the great Western, and with the additional object of placing that city en route of the great line of travel between the eastern and western States. Buffalo is the largest town within reach of, and affords, probably, the best market for, the Canadian peninsula, with which it will be conveniently connected by the above road. This city, too, is a necessary point in the route of nearly every person visiting any portion of the country bordering Lake Erie, and it is highly important that egress should be had from it in every direction. The road is in progress, and will be com-

pleted simultaneously with the great Western.

The chartered line of this road extends to Goderich, on Lake Huron, to which it will probably be extended soon after reaching Brantford.

The Toronto and Lake Huron road connects Lake Ontario with Lake Huron by the shortest practicable line between the two, and will form for persons going to Lake Superior or Lake Michigan, by way of Mackinaw, a much shorter line than by way of Detroit. In this respect it bids fair to occupy an important relation to a leading route of travel and commerce. It traverses, too, a very fertile district, alone capable of supplying a lucrative traffic. A portion of this line is opened for business, and the unfinished part will be soon completed.

A road is also under contract from Toronto to Guelph; but as this is a work of local importance, a particular description of it is not re-

quired.

The roads connecting Montreal with those of New York and Vermont are sufficiently noticed with the works of those States.

LOWER PROVINCES.

European and North American railroad.—Under this title is embraced the proposed road extending from Bangor, Maine, and Halifax, Nova

Scotia, a distance of about five hundred miles. The principal object to be effected by its construction is to constitute it a part of the great line of travel between America and Europe. The distance from New York to Halifax is equal to one-third of the entire distance from the former to Liverpool; and as the proposed road pursues the same general direction with the route of the steamers, some of which touch regularly at Halifax, it is believed that this portion of the route to Europe would be made by railway. It was upon this assumption that the above project was proposed. As far as the provinces are concerned, it has met with great favor, as it is believed it will develop the abundant resources known to exist within them, and secure those social advantages which are intimately connected with the progress of comparatively isolated districts, in population, commerce, and wealth. The New Brunswick portion of the above road is already under contract to a company of eminent English contractors, and the work in progress. Measures are also in progress to the same end as far as the Nova Scotia division is concerned. The greater part of its line through both provinces traverses a region much more fertile and productive than any considerable portion of our eastern States, from which it is believed a large and profitable business will be secured both to the road and to the cities of Halifax and St. John.

A project for a railroad from Halifax to Quebec, skirting the shores of the gulf and river St. Lawrence, has recently attracted much attention throughout the provinces, as well as in England, but this project may now be regarded as abandoned. A portion of the northern end of this line may be constructed down the St. Lawrence for a distance of about one hundred miles below Quebec. It is also proposed to extend a branch from the European and North American railroad along the Gulf of St. Lawrence to Bathurst. A road is also in progress from St. Andrews to Woodstock, on the river St. John; but as its importance is mainly local, a particular description is not required.

ECONOMICAL VIEW OF THE RAILROADS OF THE UNITED STATES,

The first step toward a correct idea of our railroads, as far as their uses, objects, costs, and results are concerned, is a thorough understanding of the social and industrial character of our people, the geographical and topographical features of the country, the uniformity in the pursuits of the great mass of our people, and the great distance that separates

the consuming from the producing regions.

Assuming the occupied area of that portion of our territory east of the Rocky mountains to be 1,100,000 square miles, at least 1,050,000 are devoted to agriculture, while not more than 50,000 are occupied by the manufacturing and commercial classes. These compose a narrow belt of territory lying upon the seacoast, extending from Baltimore to the eastern part of Maine, and are more widely separated from the great producing regions than any other settled portion of the country. The great peculiarity that distinguishes our own from older countries is, that we have no *interior* markets. The greater part of our territory has not been long enough settled for the development of a variety of industrial pursuits, which constitute them. So entirely are our people

devoted to agriculture, and so uniformly distributed are they over the whole country, that some of our largest States, Tennessee and Indiana for instance, had no towns in 1850 containing a population of over 10,000.

This homogeneousness in the pursuits of the great mass of our people, and the wide space that separates the producing and consuming classes, as they are popularly termed, necessarily implies the exportation of the surplus products of each. The western farmer has no home demand for the wheat he raises, as the surplus of all his neighbors is the same in kind. The aggregate surplus of the district in which he resides has to be exported to find a consumer; and the producer for a similar reason is obliged to import all the various articles that enter into consumption which his own industry does not immediately supply; and farther, as the markets for our agricultural products lie either upon the extreme verge of the country, or in Europe, the greater part of our domestic commerce involves a through movement of nearly all the articles of which it is composed.

In older countries this necessity of distant movement, as will be the case in this, in time, is obviated by the existence of a great variety of occupations in the same district, which supply directly to each class

nearly all the leading articles that enter into consumption.

It is well known that upon the ordinary highways, the economical limit to transportation is confined within a comparatively few miles, depending of course upon the kind of freight and character of the roads. Upon the average of such ways, the cost of transportation is not far from 15 cents per ton per mile, which may be considered as a sufficiently correct estimate for the whole country. Estimating at the same time the value of wheat at \$1 50 per bushel, and corn at 75 cents, and that 33 bushels of each are equal to a ton, the value of the former would be equal to its cost of transportation for 330 miles, and the latter, 165 miles. At these respective distances from market, neither of the above articles would have any commercial value, with only a common earth road as an avenue to market.

But we find that we can move property upon railroads at the rate of 1.5 cent per ton per mile, or for one-tenth the cost upon the ordinary road. These works therefore extend the economic limit of the cost of transportation of the above articles to 3,300 and 1,650 miles respectively. At the limit of the economical movement of these articles upon the common highway, by the use of railroads, wheat would be worth \$44 50, and corn \$22 27 per ton, which sums respectively would represent the actual increase of value created by the interposition of such a work.

The following table will show the amount saved per ton, by transportation by railroad over the ordinary highways of the country:

Statement showing the value of a ton of wheat, and one of corn, at given points from market, as affected by cost of transportation by railroad, and over the ordinary road.

	. *			
	Transportation ro	tion by rail- ad.	Transports nary h	ition by ordi- ighway.
	Wheat.	Corn.	Wheat.	Corn.
Value at market	\$ 49 50	\$24 75	\$49 50	\$24 75
10 miles from market	49 35	24 60	48 00	23 25
20dodo	49 20	24 45	46 50	21 75
30dododo	49 05	24 30	45 00	20 25
50dodo	48 90	24 15	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	18 75 17 25
60dodo	48 75 48 60	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
70dodo	48 60 48 45	23 70	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	15 75 14 25
80dodo	48 30	23 55	37 50	12 75
90dodo	48 15	23 40	36 00	11 25
100dodo	48 00	23 25	34 50	9 75
110. dodo	47. 85	23 10	33 00	8 25
120 . do do	47 70	22 95	31 50	6 75
130 . do do	47 55	22 80	30 00	5 25
140. dodo	47 40	22 65	28 50	3 75
150dodo	47 25	22 50	27 00	2 25
160 do do	47 10	22 35	25 50	75
170dodo	46 95	22 20	24 00	00
180dodo	46 80	22 05	22 50	
190dodo	46 65	21 90	21 00	
200 do do	46 5 0	21 75	19 50	
210 do	46 35	21 60	18 00	
22 0dodo	46 20	21 45	16 50	
230 do do	46 05	21 30	15 00	
240dodo	45 90	21 15	13 50	
250dodo	45 75	21 00	12 00	
260dodo	45 60	20 85	10 50	
270dodo	45 45	20 70	9 00	
280 . do do	40 30	$20 \ 55$	7 50	
290 . do do	45 15	20 40	6 00	
300dodo	45 00	20 25	4 50	
310dodo	44 85	20 10	3 00	
320dodo	44 70	19 95	1 50	
330dodo	44 55	19 80	00	
		<u> </u>		

The value of lands is affected by railroads in the same ratio as their products. For instance, lands lying upon a navigable water-course, or in the immediate vicinity of a market, may be worth, for the culture of wheat, \$100. Let the average crop be estimated at 22 bushels to the acre, valued at \$33, and the cost of cultivation at \$15, this would leave \$18 per acre as the net profit. This quantity of wheat (two-thirds of a ton) could be transported 330 miles at a cost of 10 cents per mile, or \$3 30, which would leave \$14 70 as the net profit of land at that distance from a market, when connected with it by a railroad. of the land, therefore, admitting the quality to be the same in both cases, would bear the same ratio to the assumed value of \$100, as the value of its products, \$14 70, does to \$18, or \$82 per acre; which is an actual creation of value to that amount, assuming the correctness of the premises. The same calculation may, of course, be applied with equal force to any other kind and species of property. The illustration given establishes a principle entirely correct in itself, but of course liable to be modified to meet the facts of each case. Vast bodies of the finest land in the United States, and lying within 200 miles of navigable water-courses, are unsaleable, and nearly, if not quite, valueless for the culture of wheat or corn for exportation, from the cost of transportation, which in many instances far exceeds the estimate in the above table. Under such circumstances products are often fed out to live stock, and converted into higher values which will bear transportation, when the former will not. In this manner, lands are turned into account, where their immediate products would otherwise be valueless. But in such cases, the profit per acre is often very small; as, in the districts best adapted to the culture of corn, it is considered more profitable to sell it for 25 cents per bushel than to feed it out to animals. It will be seen that at this price, thrice its value is eaten up by the cost of transportation of 165 miles.

In this manner, railroads in this country actually add to the immediate means of our people, by the saving effected in the expenses of transportation, to a much greater extent than cost. We are, therefore, in no danger from embarrassment on account of the construction of lines called for by the business wants of the community, as these add much more to our active capital than they absorb. Only a very few years are required to enable a railroad to repay its cost of construction

in the manner stated.

Railroads in the United States exert a much greater influence upon the value of property, than in other countries. Take England for example. There a railroad may be built without necessarily increasing the value of property or the profits of a particular interest. Every farmer in England lives in sight of a market. Large cities are to be found in every part of the island, which consume the products of the different portions of it almost on the spot where they are raised. Railroads are not needed to transport these products hundreds and thousands of miles to market; consequently they may be of no advantage to the farmer living upon their lines. So with many branches of manufactures. These establishments may be situated immediately upon tide-water, and as the fabrics are mostly exported, they would not be thrown upon railroads in any event. Such works may exist in that

country without exerting any perceptible influence in adding to the value of the property of a community. The cases of the two countries would be parallel, were the farmer in the neighborhood of Liverpool compelled to send everything he could raise to London for a market, or were their manufacturing establishments so far from the consumers of their goods, that their value would be sunk before these could be reached. We have in this country what is equivalent to manufacturing establishments in Great Britain, in good order and well stocked for business, a fertile soil, that will produce bountifully for years without rotation or dressing. All that the farmer has to do is to cast his seed on the soil and to reap an abundant crop. The only thing wanting to our highest prosperity is markets, or their equivalents, railroads, which give access to them.

The actual increase in the value of lands, due to the construction of railroads, is controlled by so many circumstances, that an accurate estimate can only be approximated, and must in most cases fall far short of the fact. Not only are cultivated lands, and city and village lots, lying immediately upon the route affected, but the real estate in cities, hundreds and thousands of miles distant. The railroads of Ohio exert as much influence in advancing the prices of real property in the city of New York, as do the roads lying within that State. This fact will show how very imperfect every estimate must be. But taking only the farming lands of the particular district traversed by a railroad, where the influence of such a work can be more directly seen, there is no doubt that in such case the increased value is many times greater than the cost of the road. It is estimated by the intelligent president of the Nashville and Chattanooga railroad, that the increased value of a belt of land ten miles wide, lying upon each side of its line, is equal to at least \$7 50 per acre, or \$96,000 for every mile of road, which will cost only about \$20,000 per mile. That work has already created a value in its influence upon real property alone, equal to about five times its cost. What is true of the Nashville and Chattanooga road, is equally so, probably, of the average of roads throughout the country. It is believed that the construction of the three thousand miles of railroad of Ohio will add to the value of the landed property in the State at least five times the cost of the roads, assuming this to be \$60,000,000. In addition to the very rapid advance in the price of farming lands, the roads of Ohio are stimulating the growth of her cities with extraordinary rapidity, so that there is much greater probability that the above estimate will be exceeded, than not reached, by the actual fact. We are not left to estimate in this matter. In the case of the State of Massachusetts, what is conjecture in regard to the new States, has with her become a matter of history. The valuation of that State went up, from 1840 to 1850, from \$290,000,000 to \$580,000,000—an immense increase, and by far the greater part of it due to the numerous railroads she has 'constructed. This increase is in a much greater ratio to the cost of her roads, than has been estimated of those of Ohio.

We have considered the effect of railroads in increasing the value of property in reference only to lands devoted to agriculture; but such results do not by any means give the most forcible illustration of their use. An acre of farming land can at most be made to yield only a small annual income. An acre of coal or iron lands, on the other hand,

may produce a thousand-fold more in value than the former. These deposites may be entirely valueless without a railroad. With one, every ton of ore they contain is worth one, two, three, or four dollars, as the case may be. Take for example the coal-fields of Pennsylvania. The value of the coal sent yearly from them, in all the agencies it is called upon to perform, is beyond all calculation. Upon this article are based our manufacturing establishments, and our government and merchant steamships, representing values in their various relations and ramifications, equal to thousands of millions of dollars. Without coal it is impossible to conceive the spectacle that we should have presented as a people, so entirely different would it have been from our present condition. Neither our commercial nor our manufacturing, nor, consequently, our agricultural interests, could have borne any relation whatever to their present enormous magnitude. Yet all this result has been achieved by a few railroads and canals in Pennsylvania, which have not cost over \$50,000,000. With these works, coal can be brought into the New York market for about \$3 50 per ton; without them, it could not have been made available either for ordinary fuel or as a motive power. So small, comparatively, are the agencies by which such immense results have been effected, that the former are completely lost sight of in the magnitude of the latter.

What is true of the Pennsylvania coal-fields, is equally true of all others to a greater or less extent. The coal-fields of Alabama may be made to bear the same relation to the Gulf of Mexico and to the manufactures of the southern States, as have those of Pennsylvania to the North. The Gulf of Mexico is to become the seat of a greater commerce than the world ever yet saw upon any sea; and this commerce, and all the vast interests with which it will be connected, will to a very great extent owe its development and magnitude to the coal-fields

that slope toward the gulf.

INCOME OF OUR RAILROADS.

Having shown the influence of our railroads in creating values, which greatly exceed their aggregate cost, the next point to be considered is the *income* of these works.

As both the income of our roads and the influence which they exert, in increasing values, must bear a close relation to each other, the facts that have already been established in reference to the latter necessarily involve the idea of a large business upon our roads. The value of lands depends upon their capacity to yield a very large surplus for

transportation.

There is no other country in the world where an equal amount of labor produces an equal bulk of freight for railroad transportation. One reason is, that the great mass of our products is of a coarse, bulky character, of very low comparative value, and consisting chiefly of the products of the soil and forest. We manufacture very few high-priced goods, labor being more profitably employed upon what are at present more appropriate objects of industry. The great bulk of the articles carried upon railroads is grains, cotton, sugar, coal, iron, live stock, and articles of a similar character. The difference between the value

of a pound of raw and manufactured cotton is measured frequently by dollars, yet both may pay the same amount of freight. Wheat, corn, cattle, and lumber, all pay a very large sum for transportation in pro-

portion to their values.

Again, for the want of domestic markets, the transportation of many of our important products involves a through transportation. Take, for instance, a cotton-producing State like Mississippi. Nearly the whole industry of this State is engaged in the cultivation of this article. Of the immense amount produced no part is consumed or used within the The entire staple goes abroad; but as the aggregate industry of the people is confined to the production of one staple, it follows that all articles entering into consumption must be imported; so that, over the channels through which the cotton of this State is sent to market, an equal value or tonnage must be imported, as the case may be. This necessity, both of an inward and outward movement, equal to the whole bulk of the surplus agricultural product, is peculiar to the United States, and is one of the reasons of the large receipts of our roads. While this is the case, it is equally true that newly settled sections of country will often supply a larger amount of traffic than an older one. There can be no doubt that an equal amount of labor would produce four times as much corn and wheat in Illinois as in Massachusetts; consequently, a man living in the former would contribute four times as much business to a railroad as one in the latter. In clearing the soil, it often happens that the transportation of lumber supplies a larger traffic for two or three years than agricultural products for an equal length of time.

It is, therefore, a great mistake to suppose that, because a country is new, it cannot yield a large traffic to a railroad. In the southern and western States only one year is frequently required to prepare the soil for crops, which may be renewed, the same in kind, for a long series of years. The amount raised, and consequently the surplus, is much larger in the more recent than in the longer settled portions of the country. In the more recent, too—the number of inhabitants being the same in both cases—the amount sent to distant markets is greater from the fact that there is no diversity of pursuits, which in older communities supply from a limited circle nearly all the prime necessaries of life that enter into consumption. In newly settled districts, all these are often imported from distant markets at a very heavy cost of transportation.

The general views above stated, in reference to the earnings of the railroads in the United States, are fully borne out by the result. Investments in these works have probably yielded a better return, independently of the incidental advantages connected with them, than the ordinary rates of interest prevailing throughout the country. Such is the case with the roads of Massachusetts, the State in which these works have been carried to the greatest extent, and have cost the most per mile, and amongst which are embraced a number of expensive and

unproductive lines.

The following statement, compiled from official returns, shows the cost, expenses, and income of all the railroads of this State for four years previous to January 1, 1852:

Years.	Cost.	Expenses.	Income
1848	\$46,777,009	\$3,284,933	\$6,067,164
1850	, , , ,		6,300,662
1851	56,106,083	4,002,847	7,287,342
 1			
Total	154,768,648	10,698,104	19,655,168

The above table includes several expensive works opened too recently for the development of a large business, and of course presents a much more unfavorable view of the productiveness of these works.

than would be shown by an average for a longer period.

The most productive railroads in Massachusetts are those connecting the manufacturing and commercial towns, while the most unproductive are those depending upon the agricultural interests for support. agriculture of this State supplies nothing for export; on the contrary, there is hardly a town that does not depend upon other and distant portions of the country for many of the more important articles of food. The small surplus raised is wanted for consumption in the immediate neighborhood of production. Where there are no manufacturing establishments upon a route, the movement of property upon New England roads is limited, and hence the comparative unproductiveness of what may be termed agricultural lines. In the eastern States other sources of business make up for the lack of agricultural products for transportation, and the aggregate investment is productive. In the southern and western States the soil supplies a very large surplus for exportation, affording often, per mile, a greater bulk for transportation than is supplied to eastern roads, either from agriculture, manufacture, or commerce. The cost of the former, however, will not, on the average, equal one-half that of the latter; and as the rates of charges are pretty uniform upon all, and if anything higher upon the southern and western than upon the eastern roads, the revenues of the former must of course be very much greater than the latter. Such is the fact. The greater income of the one results, both from a larger traffic, which the western country in particular is adapted to supply, and from the higher rates of charges in proportion to the cost of the respective lines of the two different sections of the country. Numerous illustrations of this fact might be readily given. The earnings of the Cleveland and Columbus road have been greater than those of the Hudson river since the opening of their respective lines, though the former is only 135 miles long and cost \$3,000,000, while the latter is 144 miles and cost \$10,000,000. Railroads in the newly settled portions of the country, as a general rule, command a much larger traffic, and of course yield a better return upon their cost, than those of the older States. Assuming the revenues per mile of the roads of the two divisions of the country to be equal, their net income will be in the ratio of their cost, which may be stated at two to one in favor of western and southern roads.

MODE OF CONSTRUCTION.

By far the greater number of our roads in progress are in the interior of the country—in our agricultural districts, that do not possess an amount of accumulated capital equal to their cost. A business adequate to the support of a railroad may exist without the means to construct one. The construction of a railroad, too, creates opportunities for investment which promise a much greater return than the stock in such a work. While, therefore, our people are disposed to make every reasonable sacrifice to secure a railroad, they prefer, and in fact they find it more for their interest, to borrow a portion of the amount required, than to invest the whole means directly in the project. They can better afford to secure the co-operation of foreign capital, by offering high premiums for its use, than to embarrass themselves by making a permanent investment of too large a proportion of their own immediate means. These facts sufficiently explain the reasons why the borrowing of a considerable portion of the cost of our roads has become so universal a rule.

It is only by the co-operation of capitalists residing at a distance, and having no interest in the collateral advantages due to railroads, that the great majority of our works could have been constructed. In the outset, money was furnished slowly and cautiously, and then only upon the most unquestioned security. As the result began to demonstrate the safety and productiveness of these investments, capital was more freely afforded, and became less exacting in its conditions. The result has been, that a confidence in the safety of our railroads, as investments of capital, has become general, not only in this country, but in Europe; and companies whose means and prospective advantages entitle them to credit, find no difficulty in borrowing a reasonable sum upon the security of their roads, with which to complete them. The amount usually borrowed for our roads in progress averages from \$5,000 to \$10,000 per mile. The general custom requires that a sum equal to the one sought to be borrowed shall be first paid in, or secured for construction. A road that will cost \$20,000 per mile is considered as sufficient security for a loan of \$10,000 per mile; and as the cost of new works will not much exceed the former sum, the latter is not, as a general rule, considered so large as to create distrust as to the safety of the investment, on account of the magnitude of the loan.

This rule, which establishes the proportions to be supplied by those engaged in the construction, and capitalists, is well calculated to promote the best advantage of both parties. The fact that the people on the line of a contemplated road are willing to furnish one-half of the means requisite for construction, and to pledge this for an equal sum to complete the road, is sufficient evidence that in the opinion of such people, the construction of such work is justified by a prospective business. The interest they have in it also is a sufficient guarantee that its affairs will be carefully and prudently managed. The large amount paid in and at stake divests the project of all speculative features. Where the advantages and success are merely contingent, prudent persons do not usually hazard large sums. The lender has, therefore, all the guarantees of safety, both from the character of the project and its

prospective income and proper management.

It is on this account that the credits furnished by municipal bodies for the construction of railroads should be resorted to only in extreme cases. Individuals making up the aggregate community may be induced to vote the credits of the latter in aid of a project, when they by no means could be induced to venture their own capital in its success. In this manner projects may be set afoot the consummation of which are not justified by these commercial and pecuniary considerations, which are the only safe guides of action in such cases. Railroads are purely commercial enterprises, and their construction should be made to depend upon the same rules of conduct that control the building of ships, or the erection of manufacturing establishments.

The safety of the securities offered to the public will be readily seen from a comparison of the earnings of our railroads with the sum necessary to meet the interest on the loans. Allowing the sum borrowed to equal \$10,000 per mile, it would require from \$600 to \$700, according to the rates, annually, to meet the accruing interest. But the net earnings of our new projects more than treble this amount, leaving for dividends on stock a sum equal to double that paid on loans. That such will be the result, as far as our new and less expensive works are concerned, for some years to come, till a greater abundance of money shall have lowered the rates of interest, and the competition of new works shall have reduced the rates charged for persons and property, there cannot be a doubt.

Below is given a table of the gross and net earnings of several of our new roads, and of the same class as those that are now coming into market for money:

	Total earnings, as per last report.	Net earnings.	Permile.
*Cleveland and Columbus Little Miami Columbus and Xenia Michigan Central Madison and Indianapolis	211,631 37 1,100,043 00	\$239,969 28 297,457 57 150,055 58 461,364 80 185,080 60	\$1,710 3,541 2,778 2,116 2,378

^{*} For six months only.

Cost of Railroads in the United States.

With the exception of those in the States of Massachusetts and New York, it is difficult to get at the exact cost of our roads. The companies within the States named are required by law to return to their legislatures the cost of their respective lines. To ascertain the cost of other roads, resort must be had to the published statements of their affairs. These statements, though generally to be relied upon, are uniform neither in their character nor in the time at which they make their appearance; and some of our largest companies make no exhibit of their affairs save to their own stockholders.

It may be here stated that it is in the power of the general government to supply the lack of information which at present exists in reference to our railroads, by requiring all companies with whom contracts are made for transportation of the mails to return to the Post Office Department full and accurate statements of their cost, income, debts, expenses, &c., &c. Such returns, made in a proper manner, would be exceedingly advantageous in many points of view. They would show annually the extent to which these works are carried, their cost, income, expenditures, mode of conducting the various works, &c., &c. The returns of their business operations would afford a great amount of useful information, in reference to the internal commerce of the country, which could be obtained from no other sources. of correct statistical knowledge upon this subject is felt and acknowledged by all; and there seems to be no other mode of obtaining this correctly than by the one pointed out. The returns, too, by collecting all the existing information upon the subject of railroad management, could not fail to exert the most beneficial influence, by making public whatever is valuable in the experience of each company.

The cost of our roads depends very much upon the character of the country through which they are built. Those in the New England States are the most expensive, not only from the greater difficulty of construction, but from the greater cost of right of way, land, &c. The general surface of the country is unfavorable. It becomes better adapted to these works on going south, though the roads of all the eastern States, as far south as Maryland, cost much higher, per mile, than those of the southern or western States. The difference in the cost between the roads of the two sections of the country is confined principally to the items of grading, bridging, and lands. In the States of Indiana and Illinois, the cost of these items, upon long and important lines, will not often exceed \$5,000 per mile; while in the eastern States the average for the same is four or five times greater. The Mississippi valley consists of an immense plain, presenting but a few obstacles to the easy construction of a railroad. The same may be said of the greater portion of the southern Atlantic and Gulf States. Throughout the country, except in the eastern States, the lands required for right of way, depots, and stations, are either given gratuitously, or are had at very low cost; the owners being sufficiently renunerated in the incidental advantages resulting from these works.

The average cost of the roads of the States of Maine, New Hampshire, Vermont, Massachusetts, Connecticut, Rhode Island, New York, New Jersey, Pennsylvania, and Maryland is not far from \$40,000 per mile. The cost of those of the States not enumerated is not far from \$20,000 per mile. The average for the whole country will not exceed \$30,000 per mile, including full equipment, and everything necessary for their efficient operation. This would give for one road, completed and in progress, the following as the total cost:

Free state and state sound conference

Roads completed, 12,821½ miles, at \$30,000 per mile. \$384,630,000 Roads in progress, 12,628½ miles, at \$20,000 per mile. \$252,560,000

It is believed that an extent of line equal to the whole number of miles now in operation will be completed within three years from the present time, at which period the cost of our roads will equal the above sum.

The probable extent to which the construction of railroads will be ultimately increased in this country, is an interesting subject of speculation. At the present time they are very unequally distributed. In Massachusetts, for instance, we find one mile of railroad to every six square miles of territory. The same ratio applied to the area in which these works are in progress, would give 183,000 miles of railroads against 26,000 miles, which is not far from the extent of line in operation and progress at the present time. It would give to the State of Ohio nearly 7,000 miles, where there are not one-half of this number either in operation, in progress, or contemplated. It would give to Illinois 11,000 miles, and nearly the same amount to Virginia. Both of these States have not more than 4,000 miles in operation and pro-

gress.

There can be no reason why the State of Ohio should not, in time, and in fact as soon as they can be reasonably constructed, have the same number of miles of railroad, in proportion to its area, as Massachusetts; nor why the western States of Michigan, Indiana, Illinois, Wisconsin, Iowa, and Missouri should not have the same number of miles of railroad, their areas compared, as Ohio. They are equally well adapted to these works, and the same necessity exists for their construction in the former as in the latter. The only element wanting to secure a similar result is time, which will supply population, and develop their resources to an equal extent. There is no reason why railroads should not keep pace with the progress of the States in population and wealth, nor why, when they have reached the present position of Ohio, they should not boast an equal number of miles of railroad.

The area of the States above named is equal to 400,000 square miles. To supply these with railroads, to the same extent that we now find in Ohio, including those in progress, would require 26,000 miles of road. The same ratio that we find in Massachusetts would require more than 66,000 miles. Now, no one acquainted with the resources and wants of the southwestern States, and the character of their people, can doubt that, in time, an equal area will call for an equal extent of lines, and that the construction of these roads will proceed

with equal pace with their population.

The probable rapid expansion of these works is well shown by a comparison of Georgia with other southern States. In the former there are about one thousand miles of road in operation, all of which are lucratively employed. Now, the States of North Carolina, Alabama, Mississippi, Louisiana, Tennessee, and Kentucky will all compare favorably with Georgia in population, in wealth, in extent, and in natural resources. Railroads are just as much needed by the former as by the latter. They would cost no more per mile. They would pay equally well, and would accomplish as much in improving the condition of their people. But the aggregate length of line of all these States is not equal to the extent of railroad which we find in Georgia. Here, then, is a field

where at least five thousand miles of railroad are shown to be needed, for no one can doubt that railroads in the States named will be equally

as useful and productive as those of Georgia.

But even Georgia is very poorly supplied with railroad facilities. Not one-half of her territory, and hardly one-half of her population, are within reach of them. A very large proportion of her products are wagoned, or sent down her rivers at great expense, to inconvenient markets. Her area is at least eight times greater than that of Massachusetts. The latter State has one mile of railroad to every six square miles of territory. The same ratio would give to Georgia 9,600 miles of railroad, equalling two-thirds the whole extent of lines in the United States, and to the States named, including Georgia, (embracing an area of 390,000 square miles,) more than 65,000 miles of railroad. There can be no doubt that, in the States named, ten thousand miles of railroad are needed to meet the immediate commercial wants of the people, and that this extent of road would find lucrative employment.

Tabular statement showing the number of miles of railroad in progress and in operation in the United States.

MAINE.

Roads.	Miles in operation.	Miles in progress.
Androscoggin and Kennebec.		
Atlantic and St. Lawrence		30
Buckfield branch	13	
Bangor and Piscataquis	12	
Kennebec and Portland	60	
Bath branch.	9	
Portland, Saco, and Portsmouth		
Calais and Baring		
Machias port		
York and Cumberland	10	43
Androscoggin		10
Penobscot and Kennebec	20	55
Total	365	128

NEW HAMPSHIRE.

Roads.	Miles in operation.	Miles in progress.
Boston, Concord, and Montreal. Cocheco Concord Concord and Claremont Contocook Valley. Great Falls and Conway. Manchester and Lawrence New Hampshire Central. Northern. Portsmouth and Concord Sullivan Wilton.	71 28 35 25 14 13 26 26 82 47 25	22
Cheshire. Ashuelot. Eastern. White Mountain.	54 23 16	20
Total.	500	42

VERMONT.

Roads.	Miles in operation.	Miles in progress.
Connecticut and Passumpsic River Rutland and Burlington Vermont Central Rutland and Washington Vermont Valley Bennington branch Western Vermont	119 164 12	
Total.	439	

MASSACHUSETTS.

Roads.	Miles in operation.	Miles in progress.
Berkshire	21	
Boston and Lowell	28	
Boston and Maine	83	
Boston and Providence	53	
Stoughton branch	4	
Boston and Worcester	69	
Cape Cod branch	28	
Dorchester and Milton	3	
Eastern	58	
Essex (Salem to Lawrence)	21	
Fall River	42	
Fitchburg	67	
Fitchburg and Worcester.	18 .	
Lowell and Lawrence	13	
Nashua and Lowell	15	
New Bedford and Taunton	33	
Newburyport	15	
Norfolk County	26	
Old Colony (Boston to Plymouth)	45	
Petersboro' and Shirley	23	<i></i>
Pittsfield and N. Adams.	20	
Providence and Worcester	44	
South Shore	11	
Stony Brook	13	
Western (Boston to Albany)	117	
Worcester and Nashua	46	
Vermont and Massachusetts	77	
Housatonic branch	11	
South Reading branch	9	
Salem and Lowell	17	
Grand Junction	7	
Harvard branch	1	
Lexington and West Cambridge	7	
Connecticut River.	52	
Troy and Greenfield.		42
South Reading branch.	9	
Charles River branch		12
Stockbridge and Pittsfield	22	
Palmer and Amherst		25
Total	1,128	79

RHODE ISLAND.

Roads.	Miles in operation.	Miles in progress.
Stonington	50	32
Total	50	32

CONNECTICUT.

Roads.	Miles in operation.	Miles in progress.
Hartford and New Haven Hartford, Providence, and Fishkill Housatonic. Middletown branch Naugatuck New Haven Canal New London, Willimantic, and Palmer New London and New Haven New York and New Haven Norwich and Worcester Collinsville branch Air-line.	50 98 10 62 45 66 50 76 66 11	96
Danbury and Norwalk	24 10	
Total	630	198

NEW YORK.

Roads.	Miles in operation.	Miles in progress.
Albany and Schenectady Albany and West Stockbridge Attica and Buffalo Buffalo and Niagara Falls Cayuga and Susquehanna	38 <u>4</u> 31 <u>4</u> 22	

NEW YORK-Continued.

Roads.	Miles in operation.	Miles in progress.
Hudson and Berkshire	31 <u>1</u>	
Hudson River	144	
Lewiston	3	
Long Island	98	-
New York and Erie	464	
New York and Harlem	130	
Northern.	118 35	
Oswego and Syracuse	32	
Rensselaer and Saratoga	104	
Rochester and Syracuse. Saratoga and Washington	$39\frac{1}{3}$	
Saratoga and Schenectady	$\frac{33_{\overline{2}}}{22}$	
Schenectady and Troy	$\frac{22}{20\frac{1}{2}}$	
Schenectady and Troy	5	
Syracuse and Utica	53	
Syracuse and Utica	14	
Buffalo and Rochester	76	
Troy and Greenbush	6	
Utica and Schenectady	78	
Watertown and Rome	97	
Albany and Northern		33
Albany and Susquehanna		143
Buffalo and State Line	69	
Buffalo and New York	90	<i></i>
Buffalo, Corning, and New York	45	87
Canandaigua and Elmira	67	
Plattsburg and Montreal	25	
Rochester and Niagara Falls	76	
Rutland and Washington	64	
Sackett's Harbor and Ellisburg		17
Troy and Boston. Canandaigua and Niagara Falls Syracuse and Binghamton.	32	8
Canandaigua and Niagara Falls	• • • • • • •	97
Syracuse and Binghamton		76
Sodus Bay and Southern	• • • • • •	35
Potsdam, Watertown, and Southern		75
Lake Ontario and Auburn	• • • • • • •	75
Buffula and Olean		100 75
Buffalo and OleanLebanon Springs		75 53
roganon phinika		93
Total	$2,148\frac{1}{4}$	874

NEW JERSEY.

Roads.	Miles in operation.	Miles in progress.
Belvidere and Delaware		40
Camden and Amboy Morris and Essex New Jersey	64 35	45
New Jersey Central Trenton branch	64	
Union		85

PENNSYLVANIA.

Roads.	Miles in operation.	Miles in progress.
Alleghany Portage Beaver Meadow Carbondale and Honesdale Columbia and Philadelphia, Westchester branch Corning and Blossburg Cumberland Valley Hazleton and Lehigh Little Schuylkill Extension to Tamenend Mine Hill Mount Carbon Pennsylvania Philadelphia, Reading, and Pottsville Philadelphia and Norristown Germantown branch Philadelphia, Wilmington, and Baltimore Schuylkill Valley	36 36 36 24 82 9 25 52 10 20 	6 36
Summit Hill and Mauch Chunk Whitehaven and Wilkesbarre Williamsport and Elmira Franklin Dauphin and Susquehanna	25 20 21 22	

PENNSYLVANIA—Continued.

Roads.	Miles in operation.	Miles in progress.
Strasburg. Lykens Valley. Nesquehoning. Room Run. Chester Valley. Lehigh, Delaware, Schuylkill, and Susquehanna. Pine Grove. Beaver Meadow. York and Cumberland. Sunbury and Erie. Lackawanna and West'n. Catawissa, Williamsport, and Erie. Delaware and Susquehanna. Philadelphia and Westchester. Pennsylvania Coal Company. Hempfield. Allegheny Valley. Columbia branch. Hanover branch. York and Wrightsville. Lancaster and Harrisburg. Susquehanna. Pittsburg and Steubenville. Franklin Canal. Northeast.	5 12 25 50 47 19 13 13 37	22 40 240 93 48 25 78 180
DELAWARE.	<u> </u>	<u> </u>
Roads.	- Miles-in operation.	Miles in progress.
New Castle and Frenchtown Wilmington branch	16	11

MARYLAND.

	J 184	
Roads.	Miles in operation.	Miles in progress.
Annapolis and Elkridge. Baltimore and Ohio. Washington branch. Frederick branch. Baltimore and Susquehanna. Westminster branch.	304 38 3 57	75
Total	433	75

VIRGINIA.

Roads.	Miles in operation.	Miles in progress.
Richmond and Danville. Richmond and Petersburg. Clover Hill. South Side. Manasses Gap. Petersburg and Roanoke. Seaboard and Roanoke. Appomattox. Winchester and Potomac. Virginia Central, including Blue Ridge. Virginia and Tennessee. Orange and Alexandria. Richmond, Fredericksburg, and Potomac. Greenville and Roanoke. Northwestern.	65 22 15 50 60 80 9 32 104 50 40 76	75 60 75 75 155 50
Total	624	610

NORTH CAROLINA.

Roads.	Miles in operation.	Miles in progress.
Gaston and Raleigh	162	
Total	249	248

SOUTH CAROLINA.

⊁		
Roads.	Miles n operation.	Miles in progress.
South Carolina. Greenville and Columbia. Charlotte and South Carolina. King's Mountain. Laurens. Spartanburg and Union. Wilmington and Manchester.	110 25 15	16 60 117
Total	599	193

GEORGIA.

Roads.	Miles in operation.	Miles in progress.
Central	191	
Macon and Western	175 101	
Western and Atlantic	140	
SouthwesternRome branch	50 20	59
Muscogee	51	21
Atlanta and Westpoint Milledgeville	52 17	35
Eaton and Milledgeville		20
Wilkes county		18
Athens branch	$\begin{array}{c} 39 \\ 21 \end{array}$	50
Savannah and Pensacola (estimated)		300
Brunswick and Pensacola (estimated)		300
Total	857	803

FLORIDA.

Road.	Miles in operation.	Miles in progress.
St. Mark's and Tallahassee	23	

ALABAMA.

Roads.	Miles in operation.	Miles in progress.
Montgomery and West Point. Mobile and Ohio. Alabama and Tennessee. Alabama Central Memphis and Charleston. Girard.	33 40	
Total	161	$741\frac{1}{2}$

MISSISSIPPI.

Roads.	Miles in operation.	Miles in progress.
Raymond. St. Francis and Woodville. Vicksburg and Brandon. Mobile and Ohio. Mississippi Central Canton and Jackson. New Orleans, Jackson, and Northern.	60	273 180 25 400
Total	95	878

LOUISIANA.

3 a.		
Roads.	Miles in operation.	Miles in progress.
Carrolton Clinton and Port Hudson Lake Pontchartrain Mexican Gulf New Orleans, Jackson, and Northern New Orleans and Opelousas Total	64 27	180

^{*} See Mississippi.

TEXAS.

Road.	Miles in operation.	Miles in
Buffalo Bay, Brazos, and Colorado	*	32

· TENNESSEE.

Roads.	Miles in operation.	Miles in progress.
×1 4		
Nashville and Chattanooga	105	54
East Tennessee and Georgia		30
East Tennessee and Virginia		130
Winchester and Huntsville		46
Mobile and Ohio	<i></i>	119 1
Nashville Southern		100
McMinnville branch		30
Total	185	509 1

KENTUCKY.

Roads,	Miles in operation.	Miles in progress.
Frankfort and Lexington Louisville and Frankfort Maysville and Lexington	65	67
Covington and Lexington		97
Mobile and Ohio		180
Louisville and Nashville Shelbyville branch Henderson and Nashville		95 18 130
Total	91	662

MISSOURI.

Roads,	Miles in operation.	Miles in progress.
Pacific Hannibal and St Joseph's		315 200
Total		515

оню

Roads.	Miles in operation.	Miles in progress
Cleveland and Columbus. Columbus and Lake Erie. Dayton and Springfield branch. Findlay branch. Little Miami. Mad river. Sandusky and Mansfield. Xenia and Columbus. Bellefontaine and Indiana. Cincinnati and Marietta.	60 24 16 84 134 56 54	118

OHIO-Continued.

Roads.	Miles in operation.	Miles in progress.
Cleveland and Pittsburg		87
Columbus U. and Piqua		102 160
Cincinnati H. and Dayton	60 42 20	11
Hamilton and Eaton	42 37	
Iron Junction Ohio and Indiana		25 110 ·131
Ohio and Mississippi	134	20 51
Ohio central. Scioto and Hocking valley. Steubenville and Indiana.		82 120 150
Springfield, Mount Vernon and Pittsburg Dayton and Michigan		110 140
Hudson and Akron branch Franklin and Warren branch Cincinnati and Dayton		30
Carrolton branch. Tuscarawas branch.		20 20
Total	1,154	1,854

MICHIGAN.

Roads.	Miles in operation.	Miles in progress.
Central. Southern Pontiac Tecuinseh branch. Erie and Kalamazoo. Total.	228 133 25 8 33	
1 ye		1

INDIANA.

Roads.	Miles in operation.	Miles in progress.
	operation.	progress.
N. Albany & Salem, with branch round L. Michigan	140	175
Jeffersonville.	66	
Madison and Indianapolis	86	
Shelbyville branch	16	
Shelbyville branch	20	
Knightstown branch	27	
Lawrenceburg and Indianapolis		90 1
Indiana Central.		72
Newcastle and Richmond		100
Indianapolis and Bellefontaine	83	
Peru and Indianapolis	$22\frac{1}{2}$	50
Terre Haute and Indianapolis.	72	
Evansville and Illinois	26	74
Indiana Northern	135	
Ohio and Mississippi		170
Lafayette and Indianapolis	62	
Wabash Valley		200
Total	755 1	9311
	-	

ILLINOIS.

Roads.	Miles in operation.	Miles in progress.
Illinois Central.		699
Galena and Chicago	92	35
Rock Island and Chicago	50	131
Central Military Tract.		
Peoria and Oquawka		85
Ohio and Mississippi		145
Northern Cross	<i></i>	54
Sangamon and Morgan	54	
Alton and Sangamon	72	
Aurora branch	13	75
St. Charles branch.	7	
O'Fallon's Coal-road	8	
Bellville and St. Louis		20
Terre Haute and Alton		165
Mississippi and Atlantic.		
St. Louis and Chicago		75
Alton and Mt. Carmel.		
Total	296	1,771

WISCONSIN.

Roads.	Miles in operation.	Miles in progress.
Milwaukie and Mississippi	50	150 240
Total	50	390

RECAPITULATION.

	Miles in opera- tion.	Miles in progress.
Maine	365	128
New Hampshire	514	42
Vermont.	439	
Massachusetts	1,128	79
Rhode Island	50	32
Connecticut	630	189
New York	2,1484	874
New Jersey	242	85
Pennsylvania	1,215	915
Delaware	16	11
Maryland	433	75
Virginia	624	610
North Carolina	247	248
South Carolina	597	193
Georgia	857	794
Florida	23	
Alabama	161	641 1
Mississippi	95	878
Louisiana	63	180
Texas		32
Tennessee	185	4791
Kentucky.	94	663
Missouri	3 =	515
Ohio	1,154	1,854
	427	1,001
Michigan	755 1	933
Indiana	296	1,771
Illinois	50	390
Wisconsin	30	
Total	12,8083	12,612
	1	<u> </u>

PART V.

CANADA.

Area in acres: Canada East, 128,659,684; Canada West, 31,745,-

535; total, 160,405,219 acres. Population in 1851, 1,842,265.

The province of Canada, one of the most extensive, populous, and wealthy offshoots of a colonizing nation, has been justly termed "the brightest jewel in the Crown of England." Though stretching in longitude from the centre of the continent to the shores of Labrador, and in latitude from the waters which flow into the northern ocean to the parallel of Pennsylvania, it derives its importance not so much from great area, diversity of climate, and productions, as from geographical and commercial position.

From tide-water upon the St. Lawrence to Lake Superior, this province adjoins, and even penetrates, so as to divide, one of the most commercial as well as important agricultural portions of the United States. The shortest land-route between the heart of New York and Michigan is through the peninsula of Canada West, which embraces one-half the coast of the most commercial body of fresh water on the globe.

The "diversity of production" ascribed to Canada may at first appear incorrect, inasmuch as the name is associated with the rigors of a northern climate. This mistaken idea originated in the fact that the eastern or historical portion of Canada is foremost in the mind—a part substituted for the whole; while the western or modern section of the province is known only to actual visitors. The romantic narratives of Jacques Carter and Champlain, the early trials and struggles of the Jesuit Fathers, and of Frontenac, De Sales, and others of the old noblesse of France, with the stirring incidents of the wars of the Algonquins and Iroquois, have, to the great majority of the people of the United States, been the chief medium of information respecting this, England's most important colony.

It is true that in Eastern Canada there are extremes of climate unknown in the northwestern States. But it will be found that the mean temperature varies but little in the two regions. The intense cold of the winter makes a highway to the operations of the lumberman over and upon every lake and stream, while the earth and the germs of vegetation are jealously guarded from the injurious effects of severe frost by a thick mantle of snow. The sudden transition from winter to summer, melting the accumulations of ice and snow in every mountain stream, converts them into navigable rivers, downward, for bearing, in the cheapest and most expeditious manner, the fruits of the lumberman's winter labor to its market on tide-water. The commencement of vegetation is delayed by the duration of the snow, but its maturity is reached about the same period as in the western country, because there

has been a smaller loss of caloric during the winter, less retardation from a lingering spring, and more rapid growth from the constant action

of a strong and steady summer heat.

Whatever exceptions may be taken to the climate of Eastern Canada, it must be remembered that it embraces the greater portion of the white-pine-bearing zone of North America, the invaluable product of which can only be obtained by those conditions of climate, (the abundant ice and snow,) which have given it such imaginary terrors. There is scarcely one article or class of articles from any one country in the world which affords more outward freight, or employs more sea tonnage, than the

products of the forests of British North America.

While these conditions of climate and production give necessarily a commercial and manufacturing character to the eastern province, the milder climate and more extensive plains of Western Canada afford a field for agriculture, horticulture, and pastoral pursuits unsurpassed in some respects by the most favored sections of the United States. The peninsula of Canada West, almost surrounded by many thousand square miles of unfrozen water, enjoys a climate as mild as that of Northern New York. The peach tree, unprotected, matures its fruit south and west of Ontario, while tobacco has been successfully cultivated for years on the peninsula between Lakes Erie and Huron. During the last two years, Western Canada has exported upwards of two millions of barrels of flour, and over three millions of bashels of wheat, and at the present moment the surplus stock on hand is greater than at any former period. There is probably no country where there is so much wheat grown, in proportion to the population and the area under cultivation, as in that part of Canada west of Kingston.

The commercial position of Canada West as a "portage" or "stepping-stone" between the manufacturing and commercial States on the Altantic and the agricultural and mineral ones of the northwest, is illustrated by the Welland canal, the Great Western, and the Ontario

and Huron railways.

Among the prominent features of Canada, her military position is worthy of notice. She is the most northern power upon this continent; and in configuration upon the globe, she presents a triangular form, the apex of which torms the extreme southing, and penetrates the United States frontier; while the base is remote, and rests upon the icy regions of the north.

Flanked by the inhospitable coast of Labrador upon the east, and by the almost inaccessible territories of the Hudson's Bay Company on the west, she can only be attacked "in front;" when, retiring into more than Scythian fastnesses on the Ottawa and Saguenay, and keeping up communication with the strong fortress of Quebec, she can maintain prolonged and powerful resistance against foreign hostile invaders.

Viewing Canada as a whole, it may be described as a broad belt of country lying diagonally along the frontier of the United States, from northeast to southwest, from Maine to Michigan, and between the 42d and 49th parallels of north latitude. The great river St. Lawrence presents itself conspicuously as a leading feature in its physical geography, traversing, in a northeasterly course, the grand valley which it drains in its mighty career to the ocean.

The very beautiful map of the basin of the St. Lawrence hereunto appended, and prepared expressly for this report, by Thomas C. Keefer, esq., a civil engineer of high standing and eminent abilities, attached to the Canadian Board of Works, may be relied upon for its accuracy.

An attentive consideration of this new and excellent map is respectfully solicited. It presents many points of interest, exhibiting, as it does, at one view, the mighty St. Lawrence, the chain of "fresh-water Mediterraneans," of which it is the outlet, and which are indeed a geographical wonder, as also their position and relation to the States of the West, and the vast and fertile valley of the Mississippi, with the various outlets to the sea, of this valuable section of North America.

COMMERCE OF CANADA.

Before the close of the last century the commerce of Canada had reached a respectable position. The St. Lawrence was then the only outlet of Canada, and also of that portion of the United States lying upon and between Lakes Ontario and Champlain; and the port of Quebec received indifferently American and Canadian produce for exportation to the West Indies and British North American colonies.

Although Upper Canada then scarcely produced sufficient food to support her own immigration, the lower province was already a large exporter of wheat, and continued so until the ravages of the Hessian fly reduced her to her present position of an importer from the upper

province.

Mr. Keefer, in his Prize Essay upon the Canals of Canada, says:

"A wise and liberal policy was adopted with regard to our exports previous to 1822. The products of either bank of the St. Lawrence were indifferently exported to the sister colonies, as if of Canadian origin; and those markets received not only our own, but a large share of American breadstuffs and provisions. Our timber was not only admitted freely into the British markets, but excessive and almost prohibitory duties were imposed upon importations of this article from the Baltic, for the purpose of fostering Canadian trade and British shipping. The British market was closed, by prohibition, against our wheat until 1814, which was then only admitted when the price in England rose to about two dollars per bushel—a privilege in a great measure nugatory; but the West Indies and lower provinces gave a sufficient demand so long as the free export of American produce was permitted by this route. As early as 1793, our exports of flour and wheat by the St. Lawrence were as high as 100,000 barrels, and rose in 1802 to 230,000 barrels. The Berlin and Milan decrees, and English orders in council thereon, of 1807; President Jefferson's embargo of 1808, with increased duties levied upon Baltic timber, gave an impulse to the trade of the St Lawrence, so that the tonnage arriving at Quebec in 1810 was more than ten times greater than in 1800. The war of 1812 and 1815 naturally checked a commerce so much dependent upon the Americans; and we therefore find but little increase of the tonnage arrived in 1820 over that of 1810. In 1822 the Canada Trade Acts of the imperial parliament, by imposing a duty upon American agricultural produce entering the British American colonies and the West Indies, destroyed one-half of the export-trade of the St. Lawrence; and the simultaneous abundance of the English harvest

forbade our exports thither.

"As a recompense for the damage done by the Trade Act of 1822, our flour and wheat, in 1825, were admitted into the United Kingdom at a fixed duty of five shillings sterling per quarter. The opening of the Erie and Champlain canals at this critical juncture gave a permanent direction to those American exports which had before sought Quebec, and an amount of injury was inflicted upon the St. Lawrence, which would not have been reached had the British action of 1825 preceded that of 1822. The accidental advantages resulting from the differences which arose between the United States and Britain, on the score of reciprocal navigation, (which differences led to the interdiction of the United States export trade to the West Indies, and reduced it from a value of \$2,000,000, in 1826, to less than \$2,000 in 1830,) restored for a time our ancient commerce. The trade of the St. Lawrence was also assisted by the readmission free in 1826 (after four years exclusion) of American timber and ashes for the British market, and by the reduction of the duty upon our flour for the West India market, and therefore rapidly recovered, and in 1830 far surpassed its

position of 1820.

"In 1831 there was a return to the policy which existed previous to United States products of the forests and agriculture were admitted into Canada free, and could be exported therice as Canadian produce to all countries, except the United Kingdom; and an additional advantage was conferred by the imposition of a differential duty, in our favor, upon foreign lumber entering the West Indian and South American possessions. Our exports of flour and wheat by sea in that year were about 400,000 bushels-chiefly to Britain, where a scarcity then existed, and for the first time exceeding the flour export of 1802. This amount, in consequence of a demand nearer home, and the ravages of the fly in Lower Canada, was not again exceeded until 1844. Between 1832 and 1839 a scarcity and great demand for breadstuffs arose in the United States, and the crops in England being unusually abundant between 1831 and 1836, the order of things in the St. Lawrence was reversed, so that in 1833 wheat was shipped from Britain to Quebec. A farther supply came also from Archangel. These imports in 1835 and 1836 amounted to about 800,000 bushels. demand in 1829 had turned our exportation of breadstuffs inland to a very large amount; yet, notwithstanding these fluctuations of our exports, the shipping and commerce of the St. Lawrence rapidly increased in importance and value, with no continued relapse, down to the year 1842. The revulsion in 1842 was general, being one of those periodical crises which affect commerce, but was aggravated in Canada by a repetition of the measures of 1822, not confined this time to the provision-trade only, but attacking the great staple of Quebec—timber. The duties on Baltic timber, in Britain, were reduced, the free importation of American flour was stopped by the imposition of a duty thereon, and our trade with the West Indies annihilated by the reduction of the duty upon American flour brought into those islands.

imposing a duty of two shillings sterling per barrel upon American flour imported into Canada, and reducing it in the West Indies from five to two shillings, an improvement equal to five shillings sterling per barrel was made in the new position of American flour exported from the Mississippi, Baltimore, and New York. The value of our trade with the West Indies in 1830 (during the exclusion of the Americans) amounted to \$906,000; and in 1846, it was \$4,000.

"Our export to the lower provinces (Nova Scotia, New Brunswick, Cape Breton, &c.) was at its highest point in 1836, since which time it has fluctuated, but never reached its position of that year. It will be remembered that at that time the Americans were importing breadstuffs, and could not, therefore, compete with Quebec in the supply of these provinces. The act of 1842 was nearly as destructive to our trade with the gulf provinces as with the West Indies; but since the opening of our canals, there is a marked increase in this trade. In 1841 (before the passing of the Gladstone Act) our export trade with the lower provinces was worth \$456,000 annually, which amount fell off to \$204,000 in 1844. In 1845 the enlarged Welland and Beauharnois canals were opened, and since that period it has gradually recovered, so that, since the opening of the enlarged Lachine canal, it has exceeded its position of 1841, and is now increasing every year. As the interruption of our trade with the West Indies by the Canada Trade Act in 1822 was followed in 1825 by the permanent admission of our breadstuffs into the British market, and by the concessions in 1826, so its second interruption, or rather destruction, in 1842, was succeeded in 1843 by the important privilege of exporting American wheat, received, under a comparatively nominal duty, as Canadian, without proof of origin, in the British market. This measure was a virtual premium of about six shillings sterling per quarter upon American exports to Britain through the St. Lawrence; but, inasmuch as it was an indirect blow at the English Corn Laws, it contained—like a bombshell—the elements of its own destruction. This very partial measure rapidly swelled our exports of flour and wheat, so that in 1846 over half a million of barrels, and as many bushels, of these two staples were shipped from Canada by sea.

"The injury threatened to the timber-trade of the St. Lawrence by the Act of 1842 was averted by the subsequent railway demand in England, so that our exports of this article have been greater since that

period than before.

"In 1846 steps were taken in the British legislature which led to the withdrawal of that preference which the St. Lawrence had so fitfully enjoyed as the route for American exports to England; and the new system came into full operation in 1849. The intermediate demand, resulting from the failure of the potato crop, has thrown much uncertainty upon the final tendency of this important change in our relations with the mother country; and, as a necessary consequence, the ancient system of 'ships, colonies, and commerce' has fallen to the ground. In 1847 the control of our customs was abandoned by the imperial legislature, and the last and most important measure, which has relieved us from the baneful effects of the British navigation laws, came into operation on the 1st of January, 1850."

It will thus be seen that previous to 1846 the colonial policy of the British government, although vacillating and contradictory, encouraged the sea-trade of Canada by affording a market for her productions, and discouraged exports inland to the United States. Likewise, by imperial control over the colonial tariff, the mother country established differential duties against importations inland, thus throwing the supply of Western Canada into the ports of Montreal and Quebec and the contraband dealers on the western frontier.

Nearly the whole revenue from customs being collected in Lower Canada, although an equal and even greater consumption was claimed for the upper province, a controversy respecting the division of this revenue became annually more and more severe, with the increased population and demands of Canada West, and was the subject of frequent appeal to, and of adjustment by, the mother country. The insurrection of the French population, and consequent suspension of the constitution of Lower Canada, was taken advantage of to bring about a legislative union of the two provinces, which accordingly took place in 1841, and put an end to the dispute about the division of the revenue. Perhaps the remembrance of this altercation had some influence upon the subsequent action of the Canadian legislature upon the subject of differential duties. The imperial government formally abandoned all control over the Canadian tariff in 1847, and, in their next session, the colonial legislature abolished the differential and prohibitory duties on imports inland; thus placing the mother country in the same relative position as foreigners. The commercial interest of the lower province yielded to this policy from sympathy with the free-trade movements in England; while it is probable that the western province supported the measure as a means of emancipation from the monopoly of their imports by Montreal and Quebec.

The repeal (by the abolition of the British Corn Laws) of all privileges in favor of Canadian breadstuffs in the British markets, the hos-· tile tariff of the United States, and the trammelled condition of the St. Lawrence navigation, (yet unfreed from the restrictions of the British Navigation Laws,) fell heavily upon the Canadians. The scanty supply of vessels in the St Lawrence, (hitherto a "close borough," for British shipping only,) and the abundant supply of outward freights afforded by the timber coves of Quebec, had so enhanced all other freight outward, that nothing but the premium offered by the British Corn Laws made the route through the St. Lawrence more favorable than by New York, even with the burden of the United States tariff. When, therefore, this premium was withdrawn, and the English market was no longer the most profitable, the exports of Canada West (the surplus-producing section of the province) turned toward New The proximity of this city to the wheat-exporting districts of Canada, and the facilities of exporting and importing in bond, by New York canal and other internal artificial avenues, produced such a diversion of Canadian exports of flour and wheat that the quantity so sent to New York in 1850 exceeded, largely, that exported by sea through

the St. Lawrence.

The following statement will show the relative export of Canadian flour and wheat inland and by sea:

S. Doc. 112.

Flour and wheat exported from Canada in 1850 and 1851.

	189	50.	1851.		
Exported to and through—	Flour.	Wheat.	Flour.	Wheat.	
	Barrels.	Bushels.	Barrels.	Bushels.	
Buffalo	19, 244 260, 872 32, 999 90, 988	66, 001 1, 094, 444 	10, 860 259, 875 30, 609 11, 940	101, 655 670, 202 18, 195 626	
Total exported inland	404, 103 280, 618	1, 353, 363 88, 465	313, 284 371, 610	790, 678 161, 312	
Total exported	684,721	1,441,828	684, 894	951, 990	
Decrease in inland export to United States			90, 819 90, 992	562, 695 72, 847	

The following statement shows the amount of Canadian flour and wheat imported, the amount bonded for exportation, and the amount entered for consumption at each port of entry:

	Total imported 1851.		Total bon	ded 1851.	Total duty paid 1851.	
Ports.	Flour.	Wheat.	Flour.	Wheat.	Flour.	Wheat.
	Barrels.	Bushels.	Barrels.	Bushels.	Barrels.	Bushels.
Buffalo	10, 860 259, 875 30, 609 *11, 940	101, 655 670, 202 18, 195 626	10, 763 258, 657 30, 587 11, 940	88, 316 661, 409 17, 773	97 1,218 22	13, 339 8, 793 422 626
At other ports	313, 284 88	790, 678 5, 664	311, 947	767, 498	1, 337 88	23, 180 5, 664
	· 313, 382	796, 342	311, 947	767, 498	1, 425	28, 844

^{*} From Canada return of exports.

It will be seen that there is a decrease in the importation from Canada in 1851, and an increase in her exports by sea, which do not, with respect to wheat at least, counterbalance the deficiency of inland exports. As the Canadian wheat crop of 1851 exceeded that of any former year, the presumption is that the low prices which ruled during last year retained much of the surplus in the province.

The fact, however, that, of the flour exported from Canada, the number of barrels which were sent to the United States in 1850 exceeded the total exports by sea in that year, and that in 1851 this was reversed, is very significant, considering that the Canadians are now trading upon equal terms with the United States in the markets of the mother country and those of other foreign States. To elucidate this, I must refer to the

INTERCOLONIAL TRADE.

The export of flour from Canada, by sea, to the British North American colonies of Nova Scotia, New Brunswick, and Newfoundland, since 1844, has been as follows:

	Barrels.
1844	19,530
1845.	26,694
1846	35,152
1847	66,195
1848	65,834
1849	79,492
1850	140,872
1851	154,766

The amount exported to these colonies, in bond, through New York and Boston, in 1851, was—

	Flour.	Wheat.
New York	Barrels. 86,689 4,590	Bushels. 6,798
Total	91,279	6,798

making the total export to these colonies 246,039 barrels—an increase

of over twelve-fold in eight years.

The substitution of Canadian for American flour in the consumption of the "lower colonies" has been brought about by the opening of the ship-canals on the St. Lawrence, aided by a reciprocity arrangement between these colonies and Canada; and because the exclusion of the latter from the American domestic market has forced Canadian flour through the St. Lawrence, to compete in the foreign markets of the United States.

The articles of wheat and flour have been taken, for the sake of convenience, to illustrate the export-trade of Canada, its direction and distribution. The remarks above, however, apply to all other provisions of which she produces a surplus.

In the import-trade, sugar, one of the leading articles of consumption, may be taken to illustrate a change as favorable to Canada as

that in the export of flour. In 1849 the value of sugars imported from the United States was double that from the lower colonies. In 1851 the value from the United States was \$258,848, and from the colonies \$269,300. In 1849 nearly one-half of the sugar was imported, inland, from and through the United States—the proportion being 5,152,000 pounds, out of the total importation of 11,613,000 pounds. In 1850 the importation rose to 15,736,000 pounds, of which the United States furnished 5,522,000 pounds, or a little more than one-third. In 1851 the number of pounds imported was 20,175,046, of which 5,640,000 pounds were from the United States, and 5,880,000 pounds from the lower colonies.

The imports of sugar into Canada in 1851 were:

	•	
From	British colonies	\$269,300
6.6	United States	258,848
66	Other foreign countries	226,316
44	Great Britain	171,140
		-
		925,604

With respect to the route of importation, the inland import in 1849, as we have seen, nearly equalled that by sea; but in 1851 the value of sugars imported by sea was \$712,408, against \$278,468 by inland routes. Canadian vessels load at the lake ports with breadstuffs and provisions, which they carry, without transhipment, to Halifax or St. John, Newfoundland, exchanging there for a return cargo of sugars, molasses, fish, and oils. This trade is of course confined to British vessels; and as fish and other products of Nova Scotia and New Brunswick, and the flour, provisions, &c., of Canada, are exchanged duty-free, a direct free-trade between the maritime and agricultural districts of British North America is now in full operation, from which Newfoundland only is excluded—the necessities of that government forbidding her from taking off the duty on Canada flour. Her fish and oil are therefore treated as foreign in the Canadian ports.

The subjoined statement shows the progressive imports into Canada of sugars from the British North American colonies:

1849£28,7	16 \$114,864
1850 51,3	17 205,268
1851 67,3	25 269,300

It appears from the foregoing that the commerce of Canada is at present in a state of transition. No certain predictions can now be offered to show how far her efforts at commercial independence will be successful, or what influence she may be enabled to exert over the general commerce of the western lakes and adjoining districts. A short review of her position and resources will be the best mode of presenting this question.

THE COMMERCIAL PORTS OF CANADA.

Quebec.—In latitude 46° 48' north, longitude 71° 12' west. Population in 1851, 42,052.

Quebec is the most ancient, as well as the most important, port of Canada, and embraces the outports of Gaspé, New Carlisle, the Magdalen islands, and several in the river below Quebec. The province of Canada extends eastward to the straits of Belle-Isle, embracing the island of St. Paul, (between Newfoundland and Cape Breton,) the Magdalen islands, the Bird rocks, and Anticosti. In the Magdalens a sub-collector is stationed, who reported some \$226,000 worth of exports in 1848; but no return of imports is taken, and no duties, apparently, are levied. The other islands are occupied only for lighthouses and relief stations.

The harbor of Quebec is not unlike that of New York—the island of Orleans serving as a barrier from a northeast sea, and, like Long Island, affording two channels of approach. A frontage of about lifteen miles on both sides of the river not only affords the necessary wharves, but coves of sufficient magnitude to float some thirty to forty millions of cubic feet of timber, about eighty millions of superficial feet of deals, besides staves, lathwood, &c. A fresh water tide, rising eighteen feet at "springs," offers no impediment to the shipment of timber, the great business of the port, the vessels so engaged being anchored in the stream, (which affords good holding-ground,) where their cargoes are floated to them at every tide. The tide extends ninety miles above Quebec, and the water does not become perfectly salt until an equal distance is reached below; thus there is a fresh-water tide of one hundred and eighty miles beyond the salt water, and sea navigation to Montreal, ninety miles farther, or two hundred and seventy miles from salt water. The river navigation may be said to terminate about one hundred and fifty miles below Quebec, (where pilots are first taken,) but the combined gulf and river navigation extends upwards of seven hundred miles before we reach the Atlantic, with which it has no less than three connexions. The most northern of these-the straits of Belle-Isle-is in navigable order about five months, and affords a passage to Liverpool more than two hundred miles shorter than the route by Cape Race, making the distance from Quebec more than four hundred miles shorter than from New York. By using this passage the navigable route between the foot of Lake Ontario and any port in Britain is as short as that from New York harbor to the same port. The middle channel, by which the Atlantic is reached, is about fifty miles wide, and contains St. Paul's island, which, with its two lighthouses, affords an excellent point of departure. By this channel Quebec is brought nearer to any port in Europe, Africa, or the Indian ocean, than New York. The southern passage is known by the name of the Gut of Causo, and is invaluable to the fishing, coasting, and West India trade.

The gulf of and river St. Lawrence have been most elaborately surveyed by the accurate and accomplished Captain Bayfield, Royal navy, an inspection of whose charts is indispensable to a correct appreciation of the commercial qualities of this navigation. The exclusive monopoly by British ships of this route hitherto, the buoyant character of the cargo—timber, the ignorance of the masters, and excesses of the men, have been more fruitful causes of disaster than the natural contingencies of the route. Heretofore, in many instances, old and un-

serviceable vessels, commanded by men whose pay was less than that of a good mechanic, were sent out in September for a cargo of timber. A month of dissipation in Quebec sent the crew to sea diminished in numbers by desertion, with weakened physical powers, and insufficient clothing. When, therefore, the cold November blasts in the gulf were encountered, for want of ordinary exertions, strength, and intelligence, the vessel went ashore. Notwithstanding, considering that over half a million of tons of shipping annually enter the St. Lawrence, it will be found that the per-centage of losses has been no greater than that of the British and Irish channels, or the keys of Florida.*

The tonnage inward and outward, by sea, from Quebec and Montreal, for 1851, with the number of disasters within the gulf and

river, was as follows.

		inward.			DUTWARD.			TOTAL.		ters.
Port.	No. of vessels.	Tons.	Men.	No. of vessels.	Tons.	Men.	No. of vessels.	Tone.	Men.	Number of disasters
Quebec Montreal	1,305 231	533,821 55,660		1,394 195	586,093 37,568			1,119,914 93,228		11
Total	1,536	589,481	19,946	1,589	623,661	20,840	3,125	1,213,142	40,786	11

The disasters at Key West, for the same year, were about fifty in number, and on the upper St. Lawrence, between Lake Superior and Montreal, two hundred and sixty-three; where, says the reporter, "five steamers, three propellers, and thirty-seven sailing vessels went out of existence entirely."

Six hundred and eighty-eight sailing vessels, numbering 125,726 tons, and four steamers, giving 1,462 tons, form the list of wrecks of

vessels belonging to the United Kingdom for 1850.

Such an extent of land-locked navigation as the St. Lawrence presents between the pilot-ground (near the Saguenay) and the Atlantic would be, in thick weather, or snow storms, considered hazardous, were it not for the great width of beating-ground, (nowhere less than twenty-five miles, and averaging over fitty,) the absence of all shoals or reefs in or near the channel, and the admirable soundings displayed by the charts.

The trend of the Atlantic coasts of Newfoundland and Cape Breton converge upon St. Paul's island, a lofty and picturesque rock, for which a vessel may stand bold in a fog. Inside of St. Paul's a bank, with sixty fathoms, leads, by a direct line on its outer edge, clearing Anticosti, into the chops of the St. Lawrence; northward of this line is deep water; southward, regular soundings; so that, in thick or

^{*} See Part X for statements of timber trade, and tonnage employed. 28

foggy weather, the lead is an unerring guide. On entering the river the south shore gives uniform soundings all the way to the pilot-ground, the water shoaling so regularly that a vessel may at any point determine her distance from the shore within a mile by the lead alone, while at all points she may approach this shore within this distance. The admirable position of Pointe des Monts, (with a light-house one hundred feet above the water,) projecting with a bold shore several miles from the general trend of the north shore, forms, with its anchorage on both sides, a common point of departure for inward and outward-bound vessels.

The recent application of steam to ocean commerce greatly enhances the value of this navigation; particularly with reference to communication with Britain, the great centre of European steam navigation and commerce. The two great drawbacks to ocean steam navigation are, the quantity of fuel which must be carried and the resistance which a heavy sea offers to progress whether the wind be fair or foul. On the St. Lawrence route these are reduced to a minimum. The distance from the coast of Ireland to St. John, Newfoundland, or to the straits of Belle-Isle, is under 1,700 miles; and coal is found in abundance, and of excellent steaming qualities, at several points in the Gulf of St. Lawrence. The remainder of the voyage to Quebec will be made in comparatively smooth water, as the steamer will run under the shelter of either shore, according to the direction of the wind.

This notice of the position of the port of Quebec with reference to ste im navigation with Europe has been deemed essential at this time, inasmuch as the government of Canada are now receiving proposals for the establishment of a line of screw-steamers to ply upon this route during the season of navigation, and to communicate with the terminus of the railroads from Canada, at Portland, for the present, and Halifax as soon as the scheme of a grand intercolonial railway from Quebec to Halifax shall have been carried out.

It may now be proper to allude to the inducements which lead to this course—in other words, to the

SEA-TRADE OF CANADA.

The great staple of Quebec is timber, and hitherto her trade has been chiefly confined to this staple, Montreal being the point where the agricultural exports of the upper province are exchanged for the supplies of foreign goods required for the same districts. The timber is chiefly supplied by the Ottawa river, (which, with its numerous and important tributaries, drains an area of over ten thousand square miles of the finest pine-bearing land,) and also from the north shore of Lake Ontario, which is drained by a remarkable chain of lakes emptying through the rivers Otonabee and Trent, into the Bay of Quinte, (thus escaping the open water of Ontario,) from which the rafts are floated to Quebec. Thus, by the simple and inexpensive process of rafting, timber is borne by the current, at a cost of three or four cents per cubic foot, to Quebec, from a distance of six hundred miles—even from the lands drained by Hudson's bay and Lake Huron. The annual supply

varies with the export, but seems capable of almost illimitable extension. In 1846 the supply of square timber exceeded thirty-seven millions of cubic feet; that of sawed deals, sixty millions of feet, board measure; besides some fifty thousand tons of staves, lath-wood, &c.; the whole (at the usual rate of forty cubic feet to the ton) amounting to one million six hundred and fifty thousand tons, and worth, at the ruling prices of that year, between five and six millions of dollars. Reducing the cubic to superficial measure, for the sake of comparison with Albany and Bangor, the supply of square timber and deals (exclusive of staves, lath-wood, &c.) brought to Quebec in that year exceeded five hundred millions of feet. The stock wintered over exceeded twenty-one millions of cubic feet of timber, and the export twenty-four and a quarter millions, loading some thirteen or fourteen hundred vessels, of an aggregate tonnage of over half a million.

The following shows the number and tonnage of vessels inward and outward in Quebec, with the export of white-pine timber, (the

leading article,) for the last eight years:

	INWARD.		OUTWARD.		EXPORT OF WHITE PINE.	
Year.	Vessels.	Tons.	Vessels.	Tons.	Cubic feet.	
1844	1, 232	451, 142	1,239	453, 894	11, 950, 43	
1845	1,489	576, 541	1,499	584, 540	15, 828, 88	
846	1,480	568, 225	1,467	572,373	14, 392, 22	
847	1,210	479, 124	1,215	489, 817	9, 626, 44	
1848	1, 188	452, 436	1, 194	457, 430	10,709,68	
849	1, 184	465, 088	1,243	481, 227	11, 621, 92	
850	1, 196	465, 804	1,275	494, 021	13, 040, 52	
851	1, 305	533, 821	1,394	586, 093	15, 941, 60	

The greatest number of ships outward in any year previous to 1851 was in 1845, when 1,499 cleared out, with a tonnage of 584,540. In 1851 the *number* of vessels outward is less, but the tonnage is greater, than that of any former year. It must be remembered that, since 1845, the duty upon Baltic timber in Britain has been reduced.

The value of exports from Quebec depends upon the market price of timber, which ranges nearly one hundred per cent. It was greatest in 1845, when the price of timber was highest, although the tonnage outward, which is the true measure of the commerce, was less than in 1851. The progress of the imports is an index of the prosperity of the port, as the articles are general merchandise, which do not fluctuate as much in value as the exports.

The following is a statement of imports for a series of years at the

port of Quebec:

1841	£217,917	\$871,668
1842		866,680
1843		1,608,908
1844	655,869	2,623,476

1845	£712,398	\$2,849,592
1846	750,983	3,003,932
1847	796,917	3,187,668
1848	574,208	2,296,832
1849	438,673	1,754,692
1850	686,441	2,745,764
1851	833,904	3,335,616

The progress of exports inland, which for 1851 includes transit goods for United States, is shown as follows:

Year.	By sea.	Inland.	Total e	export.
1849	\$4,833,872	\$130,988	\pounds 1,241,215	\$4,964,860
1850	5,027,180	162,912	1,297,523	5,190,092
1851	5,621,988	755,588	1,594,394	6,377,576

The imports of 1851 are exclusive of railway and other iron, imported in transitu, for western States, valued at \$750,000.

The imports at Quebec in 1851 greatly exceed those of any former year, and the whole business of the port, import and export, for the past year, probably equalled its best ones when under the protective

policy of the mother country.

In order, however, to present the sea-trade of Canada, it becomes necessary to treat Quebec and Montreal as one port. The value of the exports of Quebec is generally more than double those of Montreal, while the imports of the latter are double those of Quebec. This latter difference is sensibly lessening in favor of Quebec, as that city is now becoming the point of transhipment for goods in transit to western States, which will relatively greatly increase the value of her imports; while, as she will always be the timber-mart, no corresponding decline of her exports is to be anticipated. Ships of the largest burden are brought up to Quebec by the tide; but the approach to Montreal is limited by the shallowness of water in Lake St. Peter, giving at low water only thirteen feet, and is burdened with a towage against the current of the river. The work of deepening Lake St. Peter is now in progress, with fair prospects of success, and in another year or two vessels drawing fifteen feet water may come to Montreal.

Vessels loading at Montreal are frequently obliged to lighter a portion of their cargo through the lake, and are, therefore, recleared at Quebec. Again, imports in the large ships which stop at Quebec are lightered up to Montreal; thus rendering it almost impossible to sepa-

rate the commerce of the two ports.

Again, by means of the ship-canals, the inland lake and river ports of Canada carry on a direct trade by sea; and, although the regulations require their exports to be reported at tide-water, their direct imports are not noticed at Montreal or Quebec, but are passed up under a "frontier bond," and entered at the port of destination.

In the following statement the imports in transit for the United States and those under frontier bond for Upper Canada ports are included:

Gross trade of ports of Montreal and Quebec.—Imports and exports, 1851.

Imports at Quebec, \$4,091,204 Imports at Montreal 9,177,164 Imports direct per inland ports, not reported edelsewhere 3,144,316	Exports from inland
Total imports at and through Montreal and Quebec\$16,412,684	and inland navigation 8,132,416

which makes the gross value of the export and import-trade of Montreal and Quebec for 1851 amount to \$24,545,100.

Ship-building.

There are in Quebec about twenty-five ship-building establishments, and eight or ten floating docks, capable of receiving largest-class vessels. The class of vessels built range from 500 to 1,500 tons and upwards, and there has been lately established a resident "Lloyds surveyor," to inspect and class the ships.

The average cost is as follows:

Hull and spars\$22 to \$	30 per	r ton.
Complete for sea	40	66
The number built were, in		

1848, 24 square-rigged, 18,687 tons, 1849, 28 " " 23,828 " and smaller craft, 24,396 1850, 32 " " 29,184 " making, in all, 30,387 1851, 40 " " 38,909 " Total tons. 19,909 24,396 24,396 40,567

Trade and tonnage.

The tonnage cleared outward to the lower colonies was:

Year.	Quebec.	Montreal.	Total.
1850	10,021	8,524	18,545
1851	12,588	9,819	22,407

The value of exports to the colonies by sea, and via the United States, and imports therefrom, has progressed as follows:

Year.	Exported by sea.	Exported in bond, via the U.S.	Total value of exports.	Total value of imports.
1849	\$116,581	\$32,359	\$148,940	\$48,917
1850	202,194	58,487	260,681	96,404
1851	241,791	119,353	361,144	124,350

The following is a summary statement of the sea and inland trade of Canada, contracted for 1851:

IMPO	RTS.	EXPORTS.			
Sea.	Inland.	Sea.	Inland.	Total imports.	Total exports.
\$15,324,348	\$8,681,680	\$8,081,840	\$3,259,888	\$24,006,028	\$11,341,728

Inland exports, \$3,259,888; imports, \$8,681,680. Total, \$11,941,568. Sea exports, \$8,081,840; imports, \$15,324,348. Total, \$23,406,188.

The exports inland are taken from the imports at United States custom-houses. This makes the reported value of the sea nearly double that of the inland trade, and makes the gross trade of Canada, or the value of her exports and imports for 1851, amount to \$35,347,756, of which \$24,000,000 are imports, and only \$11,000,000 exports. In the exports there should be included the value of ships built for sale at Quebec, at least \$1,000,000 more in 1851, and for undervaluation of exports inland a much larger sum; so that a full estimate of the gross trade of Canada for 1851 will not fall short of a value of forty millions of dollars.

The published Canadian returns for 1850 contain no statement, either of imports in transitu for the United States, or those which pass up under frontier bond. There are, therefore, no means of comparing the above statement with former years. It has been shown heretofore that, in the staple of wheat and flour, there has been a marked gain by the sea at the expense of the inland trade; yet the importation inland has sensibly increased over that of 1850.

The imports entered at inland ports, compared with those entered at

Montreal and Quebec, were as follows:

Ports.	1849.	1850.	1851.
Montreal and Quebec Inland ports	\$6,522,232 5,491,336	\$8,931,868 8,050,200	\$12,552,780 10,697,660
Total	12,013,568	16,982,068	23,250,440

The value of imports from the colonies and "other foreign countries" was as follows:

Year.	Colonies.	Other foreign countries.	Total.
1849.	\$195,668	\$167,296	\$362,964
1850	385,616	365,216	750,832
1851	497,400	939,976	1,437,376

Much of the imports returned as "from other foreign countries" is made through the British North American colonies. The rapid increase of the former is, in a great measure, due to the trade with the latter. Sugars, &c., the growth of the Spanish West Indies, purchased in Halifax, are reported from "other foreign countries," in order to pass the lower invoice.

The arrival of foreign vessels at Quebec in 1850 and 1851, the only two years in which they have been permitted to carry to England, has been as follows:

	1850.		1851.
Norway	45 vessels	š.	47 vessels.
United States			35 do.
Prussia	19 do.	!	21 do.
Russia	3 do.		8 do.
Sweden	1 do.		3 do.
Mecklenburg	0 do.		2 do.
Hanover			1 do.
Portugal	1 do.		0 do.
Holland	1 do.		0 do.
	96 do.,		17 do.,
	(making 37,554	tons.) (making	50,716 tons.)

The abundance of freight in the shape of lumber at Quebec, guaranteeing a full cargo outward to every vessel entering the port, must produce its effect on inward freights. More than three-fourths of the inward tonnage are now empty; but in railroad iron, salt, and coal, the

imports are rapidly increasing since the completion of the canals has let down lake vessels to carry these articles inland. The present regulations prevent American vessels from descending below Montreal, and are injurious to this commerce.

Port of Montreal.

Latitude 45° 31' north, longitude 73° 35' west; population in 1851, 57,715.

This city, at the head of sea navigation proper, is the most populous in British North America. Although not accessible (like Quebec) to the largest class of shipping, its position for a varied and extensive commerce is more commanding, inasmuch as it is the centre of a more fertile area, more numerous approaches, and possesses within itself every requisite for the support of a large population.

Montreal is picturesquely situated at the foot of the "Royal mountain," from which it takes its name, upon a large island, at the confluence of the Ottawa and St. Lawrence, which, both in fertility and

cultivation, is justly considered the garden of Canada East.

The main branch of the Ottawa, which is the timber highway to Quebec, passes north of Montreal island, and enters the St. Lawrence about eighteen miles below the city. About one-third of its waters are, however, discharged into Lake St. Louis, and joining, but not mingling, at Caughnawaga, the two distinct bodies pass over the Sault St. Louis and the Norman rapids—the dark waters of the Ottawa washing the quays of Montreal, while the blue St. Lawrence occupies the other shore; nor do they lose their distinctive character until they are several miles below Montreal.

The quays of Montreal are unsurpassed by those of any city in America: built of solid limestone, and uniting with the locks and cutstone wharves of the Lachine canal, they present, for several miles, a display of continuous masonry which has few parallels. Like the levees of the Ohio and Mississippi, no unsightly warehouses disfigure the river-side. A broad terrace, faced with gray limestone, the parapets of which are surmounted with a substantial iron railing, divides the

city from the river throughout its whole extent.

This arrangement, as well as the substantial character of the quays, is a virtue of necessity, arising from remarkable local phenomena. Montreal being the terminus of many miles of broken water, embracing the rapids of the St. Lawrence, an extraordinary quartity of "anchor" and "bondage" ice is brought down on the approach of winter, which is first arrested at the delta entering Lake St. Peter, forty miles below the city. The surface here, being covered by arrested ice, is quickly solidified, against which the ceaseless flood of coming ice is checked, drawn under, and finally arrested, until the whole river, for a distance of fifty miles, or more, is filled with ice, (as logs fill the boom in a mill-pond,) but packed, and jammed, and forced under, so as to occupy a considerable portion of the water-way of the river, which thereupon commences to rise in order to increase its area of discharge. The winter level of water in Montreal harbor remains permanently at a point some ten or fifteen feet above the summer one, covering the

wharves, which are invisible until the departure of the ice. When the river has become sufficiently elevated to secure a passage for its waters, the floating masses on its surface are firmly bound together, presenting the rugged aspect of a quarry; and, after several convulsive throes, the surface attains a state of rest. The advent of spring again breaks the calm, when, after some magnificent displays of hydraulic pressure, the ice departs en masse, and in twenty-four hours the navigation is resumed.

It is while settling to rest for the winter, and when "waking up" on the approach of spring, that the majestic phenomenon of an "ice-shove" is seen. During the elevation of the vast volume of the St. Lawrence some ten or fifteen feet and its return again to its bed, momentary arrestations of both floating and submerged ice take place, when the river above instantly rises until a "head" of water is accumulated which is fearfully irresistible. The solid crust of ice on the surface, two or three feet in thickness, is summarily and suddenly lifted and forced right and left; a field of ice, perhaps of several square miles in area, is set in motion, and, crushing against the unyielding quays, is forced upward, until it is piled "mountains high" on the terrace in front of the city. No warehouses can be erected on the water's edge without first placing an effectual barrier between them and the moving ice; and no craft of any description can be laid up for the winter in this harbor, which presents the unique spectacle of a thriving seaport, in which, for nearly five months, not a spar is to be seen.

Montreal occupies the centre of an extensive plain, cut in every direction by the St. Lawrence and Ottawa, with their tributaries, forming several large and fertile islands contiguous to the main one occupied by the city. This plain, although nearly one thousand miles by the river from the Atlantic, is scarcely elevated one hundred feet above tide-water, and, in the words of the provincial geologist, "constitutes the valley proper of the St. Lawrence, occupying a breadth of forty miles; the nature of the materials of which it is composed (a deep and highly levigated deposite of argillaceous, arenaceous, and calcareous matter) rendering it impossible to conceive of a region more fitted for

the purposes of agriculture."

The sea tonnage of the port of Montreal was—

Year.		Inward.			Outward.	
	Number.	Tons.	Men.	Number.	Tons.	Men.
1850	211	46,156	1,944	207	45,954	1,914
1851	231	55,660	2,181	245	56,998	2,254

The aggregate tonnage at Montreal and Quebec is greater than the whole tonnage outward by sea, because vessels partly laden at Mon-

treal are recleared at Quebec. The above return refers only to vessels from and to sea.

The tonnage of the port, registered under the imperial act, comprises 175 vessels, making 20,000 tons.

The progressive value of imports and duties collected is—

Year.	Imports.	Duties.
1848	\$5,925,672	\$561,916
1849	6,183,892	767,404
1850	7,172,792	1,032,636
1851	9,179,224	1,256,760

A new tariff came into operation on the 25th of April, 1849, increasing the duties an average of about thirty per cent. on former rates. The progressive exports have been-

Year	By sea.	Inland.	Total.
1848	" //	\$44 496	\$1,332,740
1849	1,610,944	90,016	1,700,960
1850	1,768,644	89,560	1,858,204
1851	2,231,500	272,416	2,503,916

The mode of keeping the provincial returns does not do justice either to the exports or imports of Montreal. Imports landed here for Toronto, Hamilton, and other inland ports, are not entered, but pass up under "frontier bond," and are scattered over the inland ports. No aggregate accounts of these are published, and their value can only be ascertained at inland ports. The nominal value passed up under these "frontier bonds," as given at Montreal for 1851, was \$1,805,140. At Quebec, the value of transit goods, both for foreign and domestic export, is not ascertained.

The exports do not include produce lightered over the bar in Lake St. Peter, or the cargoes of foreign vessels which must clear outward from Quebec. Fifty-three thousand barrels of flour, shipped at Montreal, are therefore included in the exports from Quebec for 1851. The

total value thus taken from Montreal for 1851 was \$379,132.

The following are the countries imported from:

Great Britain.	\$7,358,988
United States	1,081,372
British North American colonies	
Other foreign States, viz: West Indies, France, Portugal, Spain, Belgium, Holland, Sicily, Spanish West Indies,	
Spain, Belgium, Holland, Sicily, Spanish West Indies,	
and China	484,512
Total.	0 177 164
Total.	3,177,104

The trade between Montreal and the lower colonies is shown by the following statement of the value of imports and exports, and number of barrels of flour sent in:

Year.	Total value of imports.	Total value of exports.	No. of bbls. of flour exported.	Remarks.
1849 1850	\$129,748 236,864	\$177,448 435,736	35,082 77,461	
1851	258,200	480,728	90,089	2,621 in foreign vessels, and therefore cleared from Quebec.

The exports for 1851, being all cleared outward, are much greater than in any former year; but the imports of 1843 and 1844 were greater, because at that time all imports for Upper Canada were entered inward at Montreal, but, since the opening of the St. Lawrence canals, a great portion of these pass upwards, and are credited to the different inland ports.

The trade between Montreal and the United States is divided with the frontier ports of St. John and Rouse's Point, on Lake Champlain,

and cannot be separated.

The imports entered at Montreal and St. John from the United States were:

Year.	Montreal.	St. John.	Total currency.	Total dollars.
1849	\$532,292	\$1,213,640	£436,483	1,745,932
	772,104	1,477,784	562,472	2,249,888
	1,081,372	1,947,452	757,206	3,028,824

The exports were:

Year.	Montreal.	St. John.	Total currency.	Total dollars.
1849	\$90,016	\$955,028	£261,261	1,045,044
1850	89,560	1,214,836	326,349	1,305,396
1851	272,416	905,276	294,423	1,177,692

The change here shown in the exports at St. John was caused chiefly by the movement of timber and lumber. Large quantities, in 1850, went to the Hudson river market through Lake Champlain; but, in 1851, the Quebec market was the most profitable, and thither all shipments tended.

Inland ports.

The trade of the inland ports is somewhat complicated by the manner of making the imports. These consist of four classes, viz: Imports purchased in the United States. 2. Imports imported in bond through the United States. 3. Imports by sea, via Montreal and Quebec, under frontier bond; and lastly, imports, coastwise, of purchases in Montreal and Quebec, of which no account is kept. The value of imports, as shown by the custom-house, gives an indication of the direct trade only; none of the importance of the consumption of the port.

There are about sixty-eight inland ports, of which about thirty are warehousing ones. Of these the trade of the greater number is exclusively with the United States, either in domestic or bonded articles. But the more important lake ports are rapidly establishing a direct trade by sea with the gulf ports and the lower colonies, and very probably will soon engage in the fisheries, for which they can fit out

and provision at the cheapest rates.

As the trade between Canada and the United States is almost wholly conducted through the inland ports, a summary of that trade is here given. The imports, as shown by the custom-houses of each country, are taken as the true measure of the exports of the other.

The following statement shows the imports from, and exports to,

Canada for the year 1851:

Imports.	Amount.	Exports.	Amount.
Duty-paying In bond Free	\$1,624,462 1,593,324 94,464	Domestic Foreign under bond } Do. not under bond }	\$5,495,873 3,440,363
Total	3,312,250	Total	8,936,236

The active intercourse between Canada and the United States may be seen from the following statement of the tonnage inward and outward in 1851:

	Inward.		Outward.		Totals.	
	American.	British.	American.	British.	Inward.	Outward.
Steam	1,224,523 139,867	845,589 202,039	753,318 153,670	564,089 206,361	2,070,112 341,906	1,317,407 360,031
Total	1,364,390	1,047,628	906,988	770,450	2,412,028	1,677,438

Inward and outward.

Steam, American Steam, British Sail, American Sail, British	1,977,841 } 1,409,678 } 293,537 } 408,400 }	3,387,519 701,937
Total inward and outward, tons		4,089,456

The comparative values of exports and imports have been-

Year.	Imports from Canada.	Exports to Canada.	
1849.	\$3,582,059	\$4,971,420	
1850.	4,513,796	6,594,860	
1851	3,312,250	8,936,236	

The decrease in the imports from Canada has been explained by the increased quantity which has descended the St. Lawrence to Montreal.

The principal articles of import from Canada are flour, wheat, lumber, cattle and horses, oats, barley and rye, wool, butter and eggs.

The principal exports to Canada are tea, tobacco, cotton and woollen manufactures, hardware, sugars, leather and its manufactures, coffee, salt, India-rubber goods, hides, machinery, fruits, and wooden-ware.

Of the imports from Canada \$1,593,324 worth were received in bond, so that the value of Canada produce which paid duty was only about \$1,600,000, while that of domestic export to Canada, on which duties were levied, was \$5,495,873. The duty levied on imports from Canada for 1851 was \$373,496, while that levied on exports to Canada (including bonded goods) amounted to \$1,190,956.

The relative trade with the United States and other countries, at the

leading inland ports, was as follows in 1851:

Port.	Population	Total value of im-	From the United States.		
	in 1851.	ports from all parts.	Value.	Duty collected.	
Toronto	30,775	\$2,601,932	\$1,525,620	\$235,780	
Hamilton	14,112	2,198,300	1,049,756	165,124	
St. John	3,215	1,948,460	1,774,596	244,492	
Kingston	11,585	1,026,292	915,912	62,584	
Stanley		292,636	284,872	47,232	
Brockville	3,246	239,712	164,768	28,036	
Prescott	2,146	122,452	105,936	11.316	
Oakville		212,844	42,576	5,284	
Cobourg	3,871	142,376	125,464	13,940	

The progress of the inland ports is shown by the values on imports for the following years:

Ports.	1848.	1849.	1850.	1851.
Toronto Hamilton St. John Kingston Stanley Brockville Oakville Cobourg	941,380 1,106,692 303,788 151,608 106,228 27,660	\$1,315,452 1,123,024 1,213,640 384,044 156,220 160,404 31,076 •68,424	\$2,538,888 1,583,132 1,477,784 499,040 208,452 231,940 41,564 87,244	\$2,601,932 2,198,300 1,948,460 1,025,492 292,636 239,712 212,844 142,376

The principal inland ports upon Lake Erie are Stanley, Dover, Dunnville, Sarina, and Sandwich; on Ontario, Toronto, Hamilton, Kingston, Belleville, Cobourg, Hope, Oakville, and Whitby; on the St. Lawrence, Brockville, Prescott, and Gananoque; and in Lower Canada, St. John, Phillipsburg, and Stanstead.

The population of Toronto has doubled in the last ten years, and is now 30,000. Hamilton, now containing 14,000, has been equally progressive. The imports show their commercial progress to have been equally rapid; and there can be little doubt that in Upper Canada the export of produce, and the import and consumption of all the substantial and necessary products of civilization, are as high, per head, as in the best agricultural districts of the United States.

There yet remains one route of importation to be noticed, viz: via Hudson's bay and Lake Superior. Nearly one-half of the imports at Sault Ste. Marie are by this route. It is impossible to say what may

yet be done in this quarter. The distance from the shores of Superior to those of Hudson's bay is no greater than that between the Hudson river, at Albany, and Lake Erie, at Buffalo; and the sea-route to Britain is shorter this way than by the lakes and Montreal, New York, or Boston. All the supplies and exports of the Hudson's Bay Company are carried by sea; and although the season of navigation is very lmited, yet it embraces an important part of the year.

The two following tables are important as showing the imports and

exports inland:

Dutiable imports (principal articles) into Canada from the United States in 1851.

Articles.	Value.
Tea	\$893,216
Tobacco	
Cotton manufactures	,
Woollen do	
Hardwaredo	
Wooden-ware	1
Machinery	
Boots and shoes	
Leather manufactures	
Hides	
Leather (tanned)	
Oil (not palm)	47,804
Paper	32,996
Rice	19,920
Sugar	278,460
Molasses	19,296
Salt	79,816
Glass	18,828
Coal	38,652
Furs	44,264
Silk manufactures	80,768
India rubber.do	53,960
Dye-stuffs	12,680
Coffee	116,988
Fruit	81,144
Fish	7,544
Unenumerated	3,922,044
Total value of dutiable imports from the United	7.049.904
States in 1851	7,943,384
· · · · · · · · · · · · · · · · · · ·	

Exports (principal articles) from Canada to the United States in 1851.

Articles.	Quantity.	Value.	
Ashes	2,551 113,416 12,374 12,989 3,747	\$65,992 766,628 20,732 140,176 185,848	
Wool	163,644 708,400	41,896 491,760 1,181,484 75,596 41,588	
Oats do Butter cwt. Eggs dozens. Unenumerated.	517,405 3,560 474,481	135,708 38,004 38,008 1,705,664	
Total value of exports to United States.	-	4,929,084	

The above return is from Canadian customs, and exceeds, in the gross value, the amount of imports into the United States from Canada, as shown by the United States customs.

In concluding the notice of the inland trade, the following tables—showing the nature and extent of the "bonded" export and import between Canada and other countries, made inland via the United States, under the "drawback law"—are submitted:

Statement showing Canadian produce, &c., received in bond at New York and Boston in 1851.

	New	York.	Bost	Totallua	
Articles.	Quantity.	Value.	Quantity.	Value.	Total value.
Flourbarrels Wheatbushels	250,352 712,403	\$846,814 481,213	28,763 15,030	- \$96,256 8,628	
Ashes - barrels	2,600 6	62,562	151	. 2,521	
Butter kegsbarrels	1,340 23 1	8,791 {	1,069 kegs & tubs	} 7,466	
Winepipes	151 13	7,631			
Furs cases	3 3	6,347			
Peas bushels	2,521 5,641	} 5,651	2,815	1,082	
Unenumerated		8,084		3,488	
Value		1,427,093		119,441	\$1,546,534

The following statement shows the value of goods transported in cond to Canada from the same ports:

Articles.	VALU	Total value.	
<u></u>	New York.	Boston.	
**· 1	# <i>CC</i> 040	##10 ##P	4
Dry goods	\$66,942	\$518,557	\$585,499
Railroad iron			108,534
Sugars			107,049
Books		9,075	23,381
Preserved fruit	. 27,776	• 936	28,712
Wine	. 15,820		15,820
Hardware		16,709	36,225
Jewelry		28,046	30,301
Hides	. 16,029	3,162	19,191
Leather manufactures		560	13,718
Silks	1		16,206
Cigars	,	338	19,345
Unenumerated		13,388	128,932
Total	548,142	590,771	1,138,913

The greater value of the imports is made through Boston; but of the exports through New York. Wheat and flour form the principal articles of bonded export. The following shows Canadian wheat and flour received and exported at New York for the last three years:

		Rece	eived.			Exp	orted.	. \$
Year.	Wh	eat.	Flo	our.	Wi	eat.	FI.	our.
	Quantity.	Value.	Quantity.	Value.	Quantity.	.√alue.	Quantity	Value.
1849		\$232,250		\$777,416 1,036,218		\$216,369	,-	\$767,891
1850 1851	723,553 712,403					475,311 349,234		,
Total	1,756,53 0	1,218,178	743,084	2,660,448	1,478,704	1,040,914	633,722	2,337,124

S. Doc. 112.

Totals in three years.

Articles.	Rece	ived.	Export	ed.
	Quantity.	Value.	Quantity.	Value.
Wheat, bushels	1,756,530 743,084	\$1,218,178 2,660,448	1,478,704 633,722	\$1,040,914 2,337,124
Value		3,878,626		3,378,038

The following returns, until 1849, include the export to Canada; after which a separate account with Canada was kept, and the last three years refer only to the lower colonies. It will be observed that since 1849 the "domestic" export has decreased, while the "foreign" (that is, Canada flour in bond) has increased. Thus it will be seen that in 1849 the United States furnished for the consumption of the lower colonies more than three times the quantity of flour furnished by Canada, and that in two years thereafter Canadian flour gained the ascendency; but, taking wheat and flour collectively, the supply of breadstuffs is about equally divided between the two countries:

Export of flour and wheat from the United States to the British North-American Colonies.

Year ending June 30.	Dom	estic	Foreign, (fr	om Canada.)	Total exports.	
June 30.	Flour, bbls.	Wheat, bush.	Flour, bbls.	Wheat, bush.	Flour, bbls.	Wheat, bush.
1846 1847 1848 1849 1850	310,091 272,299 274,206 294,891 214,934 200,664	545,068 919,058 309,789 305,383 ,198,319 216,971	7,054 4,311 39,723 79,806	2,703 24,932 24,259	310,091 272,299 281,660 299,202 254,657 280,470	545,068 919,058 312,492 305,383 223,251 241,230

Comparative export of Canadian and American flour to the lower colonies.

**	American.	Cana	dian.	Total.
Year ending June 30.	Flour.	Flour by sea.*	Bounded via United States.†	Taken by lower colonies.
1846	Barrels. 310,091	Barrels. 35,152	Barrels.	Barrels. 345,243
1847	272,299 $274,206$	66,195 65,834	7,454	338,49 <u>4</u> 347,594
1849	294,891 $214,934$	79,492 140,872	4,311 39,723	378,69 4 394,42 9
1851	200,664	154,766	79,806	435,236

^{*} Year ending December 31.

† Year ending June 30.

Having noticed the sea and inland trade separately, a summary and comparative statement of the trade of Canada with all countries for the last three years is submitted. The value of exports to the United States for 1851 is here taken from Canadian returns, in order to compare with the like values of 1849 and 1850, which were taken from the same source.

Note.—From ninth line on page 32, read thus:

The canal tolls levied by the State of New York on Canadian produce passing through her canals toward tide-water, amounted in two years, 1850 and 1851, as near as could be ascertained, to over six hundred thousand dollars; and property passing through the same channels from tide-water, for the same period, probably paid half as much more; making about four hundred and fifty thousand dollars annually contributed by the Canadian trade to New York canals.

Statement of the trade of Canada with all the countries for the years 1849, 1850, and 4851.

	Grost Brit	Grast Britain walna	IInited Sto	Tritod Staton molno	Buttich Mont	h Amoninous	Other count	oulos molus	Total maliv	ile daim e
Year.			BOO DOMEN	nds, value.	Colonies, value.	s, value.	Control Controls, value,	inos, varao.	countries.	ries.
	Imports.	Exports.	Imports.	Exports.	Imports.	Exports.	Imports.	Exports.	Imports.	Exports.
1849 1850 1851	\$6,676,012 9,631,920 12,876,828	\$5,393,696 4,803,400 6,731,204	\$4,971,420 6,594,860 8,936,236	\$3,429,768 4,951,160 4,939,280	\$195,668 397,620 497,400	\$466,328 808,776 967,164	\$167,300 379,668 939,976	\$20,468 116,656 168,364	\$12,008,400 16,982,068 23,250,440	\$9,310,260 10,679,992 13,262,376

Summary.

	Value	Value of imports and exports.	ports.		•
•	1849.	1850.	1851.	Total in three years.	60 years.
Great Britain United States British North American Colonies Other countries	\$12,069,708 8,401,188 661,996 187,768	\$14,435,320 11,546,020 1,194,396 486,324	\$19,608,032 13,875,536 1,464,564 1,108,340	£11,528,265 8,455,686 830,239 445,608	\$46,113,060 33,822,744 3,320,956 1,782,433
Total	21,320,660	27,662,060	36,056,472	21,259,798	85,039,192

In none of the foregoing imports is the value of railroad iron, &c., brought via Quebec, in transit for the United States, included. Neither do the exports include the value of ships built at Quebec and sold in England.

2,154,000

with which addition the gross trade of Canada for 1851 amounts to \$38,200,256.

THE PUBLIC WORKS OF CANADA.

There is no country which possesses canals of the magnitude and importance of those in Canada. The elevation from tide-water to Lake Ontario (exceeding two hundred feet) is overcome by seven canals of various lengths, from twelve miles to one mile, (but in the aggregate only forty-one miles of canal,) having locks two hundred feet in length between the gates, and forty-five feet in width, with an excavated trunk, from one hundred to one hundred and forty wide on the water-surface and a depth of ten feet water.

From Lake Ontario to Lake Erie an elevation of three hundred and thirty feet is surmounted by a canal twenty-eight miles in length, with about thirty cut-stone locks one hundred and fifty feet long, by twenty-six and a half feet wide, designed for propellers and sail craft. These locks will pass a craft of about five hundred tons burden, while those

on the St. Lawrence have a capacity double this amount.

The total cost of this navigation may be set down at twelve mil-

lions of dollars.

The St. Lawrence canal was designed for paddle-steamers, which are required as tugs, or to ascend against the current; but from the magnitude of the rapids and their regular inclination, the aid of the locks is not required in descending the river. Large steamers, drawing seven feet water, with passengers and the mails, leave the foot of Lake Ontario in the morning, and reach the wharves at Montreal by daylight, without passing through a single lock. At some of the rapids there are obstacles preventing the descent of deeply-laden craft, but the government are about to give the main channel in all the rapids a depth of ten feet water, when the whole descending trade by steam will keep the river, leaving the canals to the ascending craft.

The time required for the descent of a freight-steamer from the head of Lake Ontario to Montreal is forty-eight hours; the rates of freight have ranged from twelve and a half cents (the lowest) per barrel, for flour, to twenty-five cents, including tolls. The upward trip requires about sixty hours, and the freight per ton ranges from \$1 50 to \$3 for heavy goods. The ruling freight on railroad iron last year from Montreal to Cleveland was \$2 50 per gross ton, and for the return cargo of flour thirty cents per barrel, tolls included in both cases.

These rates are yet fluctuating, as the long voyage is new, and are

so much influenced by the amount of up-cargo obtained that they cannot yet be considered settled. It is believed that the freight on flour from Lake Erie to Montreal (including tolls) will be brought down

to twenty cents, and on iron, up to \$2.

The construction of a ship-canal from the St. Lawrence to Lake Champlain, so as to bring the propellers of Chicago to Burlington and Whitehall, is now engaging the consideration of the Canadian government. This project originated with the Hon. John Young, chief commissioner of public works in Canada; and there is little doubt, from the favor it has received from the public, that it will be speedily accomplished. The cost would only be between \$1,500,000 and \$2,000,000, and its construction is indispensable to protect the revenues of the St. Lawrence canals from the competition of the Ogdensburg railroad. The construction of such a work must produce a corresponding enlargement of the Northern New York canal, whereupon there will be a connexion between Lake Erie and tide-water on the Hudson, via the St. Lawrence, which may be navigated, without transshipment, downward in four, and upward in five days.

The returns of trade on the Canadian canals give indication of decided and satisfactory progress in the leading articles of up and downfreight. The receipts for tolls upon the Welland canal in 1851 are thirty-three per cent. higher than in 1850. On the St. Lawrence, although tonnage has increased, the tolls have not—the revenue being here reduced by a rebatement of toll on cargoes which have passed

the Welland.

The following shows the progress of leading articles of up and down-freight on the Welland canal in 1850 and 1851:

Down-traile.

Articles.	1850.	1851.
The state of the s		
Wheat bushels.	3,232,986	4,326,336
Corn do	575,920	1,553,800
Flourbarrels.	* 396,420	525,170
Coal tons.	5,053	6,462
Hams, lard, and lard oilpounds.	3,982,720	8,485,120

The increase is greater than shown by these figures—the column for 1850 being the whole down-trade; while that for 1851 shows the entries at Port Colborne only—the whole down-trade not being attainable.

S. Doc. 112.

Up-trade.

Articles.	1850.	1851.
Railroad ironpounds. Cast and wrought-iron nails and	75,803,840	156,784,320
spikespounds.	16,486,400	26,093,760
General merchandisedo	17,958,080	24,064,320
Sugar, molasses, and coffeedo	7,781,760	19,350,320
Pig and scrap irondo	6,648,320	14,519,680

The gross tolls received from the Welland canal in 1850 were \$151,703

Do.....do.....1851..... 200,000

ST. LAWRENCE CANALS.

The comparative movement of leading articles on these canals for 1850 and 1851 was as follows:

Down-trade.

Articles.	1850.	1851.
Flour barrels. Wheat bushels. Corn do	643,352 415,510 75,480	731,412 654,731 122,310

Up-trade.

Articles	1850.	1851.
Railroad ironpounds. Pig and scrap irondo Wrought-iron nails and spikes.do Stone, glass, and earthenware.do Coaltons General merchandisepounds.	39,179,840 22,077,440 20,742,400 4,079,040 1,282½ No return.	61,900,160 22,723,120 25,527,040 5,723,838 2,468 28,913,920

Vessels which passed the several canals during the year 1851:

British.

	No.	Tonnage.	Tolls.
Welland canal	3,357	363,221	£1,628
St. Lawrence canal	6,656	505,197	1,447
Chambly canal	1,517	81,594	193
Burlington B. canal	1,998	380,649	230
St. Anne's lock	1,926	99,561	309
	15,454	1,430,172	3,809

American.

	No.	Tonnage.	Tolls.
Welland canal	2,336	409,402	£2,436
St. Lawrence canal	278	21,013	64
Chambly canal	210	9,147	27
Burlington B. canal	535	101,261	61
St. Anne's lock	61	2,846	. 8
	3,420	553,669	2,598

Total British and foreign—18,874 vessels; 1,973,841 tons; toll, £6,407.

The total movement on the canals for 1851 and three years previous is as follows:

Welland canal.

	1848.	1849.	1850.	1851.
Tons	307,611 2,487 372,854	351,596 1,640 468,410	399,600 1,930 588,100	691,627 4,758 772,623

St. Lawrence canal.

	1848. 1849. 1850. 1851.				
Tons	164,627	213,153	288,103	450,400	
Passengers Tonnage of vessels	2,071 5,648	26,997 5,448	35,932 6,169	33,407 6,934	

Chambly canal.

	1848.	1849.	1850.	1851.
Tons Passengers Tonnage of vessels	17,835	77,216	109,040	110,726
	470	8,430	278	1,860
	659	1,264	2,878	1,727

The receipts of 1851 were £76,216; expenses £12,286. Of the gross tolls the Welland produced £48,241, and the St. Lawrence £21,276.

But a most decided proof of the success of the Canadian canals is to be found in the frequent and important reductions which have been made in the tolls of the Erie canal since 1845, the year in which the enlarged Welland canal first came into serious competition with the route through Buffalo. The policy of the State of New York has been not only to obtain the largest possible revenue from her canals, but also to protect her own manufactures and products against competition from other quarters; and this she has been enabled hitherto most effectually to accomplish, by levying discriminating tolls. Thus foreign salt was excluded from the western States by a rate of toll about twice its whole value. The toll upon this article in 1845 was three cents per 1,000 lbs. per mile, or \$21 78 per ton of 2,000 lbs., (about three dollars per barrel;) while the toll upon New York State salt was only one-thirteenth part of that upon the foreign article. In 1846, (the first year after the opening of the enlarged Welland canal,) the tolls on foreign salt were reduced one-half, and a still greater amount on New York State salt. The next year a further reduction of thirty-three per cent. took place; and in 1850 the toll was again reduced one-half, so that it is now only one-sixth the rate charged in 1845; but it is still subject to a tax five times as great as that paid by New York State salt.

In like manner railroad iron, in 1845, paid a toll of nine mills; in 1846 this was reduced to five mills; in 1850, to four mills; in 1851, to two and a half mills; and in 1852, to one and a half mill. Almost every other article of heavy goods and merchandise for up-freight has likewise undergone frequent and heavy reductions in toll on the Erie

canal, since the Welland and St. Lawrence came into competition with it.

In the down-trade, flour and wheat have been reduced thirty-three per cent.; corn and oats, from four and a half mills to two mills; pork, bacon, lard, and lard oil, from four and a half mills to one and a half mill; beef, butter, cheese, tallow, beer, cider, vinegar, from four and a half to three mills. Almost every other article of down-freight has undergone like reductions. Likewise the discrimination in favor of pot and pearl ashes and window glass manufactured in New York State has been abandoned; the State retaining only a discriminating toll against salt and gypsum from other States or countries.

There can be no question but that the whole western country would have been annually taxed, both upon their exports and imports, a much larger amount than is now paid by them, in order to swell the revenue of the Erie canal, had it not been for the healthful competition of the Canadian works. As an example: the reduction in the tolls on railroad iron since 1845 amounts to \$5 44 per ton of 2,000 lbs. The amount of this iron which reached Lake Erie in 1851 was—

203,660,747

equal to 101,830 tons of 2,000 lbs.; and the reduced toll on this one article would be \$553,955 20. It has been estimated by the late Hon. Robert Rantoul, jr., M. C., that the Northwest will require 100,000 tons of railroad iron per annum for the next five years, upon which they will now pay more than half a million of dollars less, in tolls alone, than they would have paid before the enlarged Welland canal was opened.

Again: over 220,000 tons of wheat and flour, and 150,000 tons of corn, from western States, were shipped eastward from Buffalo in 1851, the reduction on the tolls of which amounts to \$512,830 from the rates of 1845; besides some 185,000 tons of wheat and flour, and 40,000 tons of corn, which passed down through the Welland, to the most of which the reduced tolls should be applied.

Thus the eastern States, in their imports of three articles from the West, as well as the western ones, in their import of one article from the East, have each obtained a reduction of transit dues amounting to over half a million of dollars, which is mainly to be ascribed to the

construction of the ship-canals of Canada.

Again: the tolls on the Erie canal upon tobacco are four times greater if "going from tide-water" than if "going toward" it, by which policy it is hoped to draw this article from the lower Ohio, Missouri, &c., to the eastern States and the seaboard through this canal. This discrimination in direction has been abandoned in respect of other articles, and will follow with tobacco, because no similar distinctions are made on the Welland.

The auditor of the canal department, in his report on the tolls, trade, and tonnage for 1850, bears the following evidence to the influence of

the Welland canal:

"The diversion of western trade from Buffalo to Oswego has also

considerably affected the revenue. While there has been 36,475 tons less of this trade entered the canal at Buffalo in 1850 than in 1849, the western tonnage coming in at Oswego has increased by 41,664 tons."

The State engineer of New York, in his report of February, 1851, urging the necessity of the enlargement of the Erie canal, says that its full capacity will be reached in 1852, and, after remarking that the cost of transport is one and a half cent per ton per mile, says, "There are lines of communication now built, and in progress of construction, which can take freight at a cheaper rate;" and, after alluding to the Ogdensburg railroad, he says, "But there is another, and I apprehend a still cheaper route, by water to Lake Champlain, soon to come into competition at the North, which will produce as cheap or cheaper rates to Boston than the above. The freight by that route affoat on Lake Champlain may find cheaper transport to New York than to Boston. It will not pass through the Erie canal, and will be diverted from Albany by cheaper routes." Lastly, he says, "Canada and Boston have not yet perfected all their works. All will soon have their whole machinery in motion. Their plans are not the product of blindness or folly—they are the results of good judgment and a just appreciation of the great boon sought and the best means of attainment."

The effect of the Canadian navigation on the imports of western States is ascertained by the 50,000 tons of iron (American property) imported last year via Quebec. The large amount of tonnage entering Quebec in ballast in quest of timber will bring in coal, iron, slate, salt, and other heavy articles at about half the rates now charged on these articles to New York. While, therefore, ocean freights inward are so much less than at New York, the abundance of timber enhances all other freights outward to more than double that from New York. The position of the two ports is reversed: it is the outward voyage which pays at Quebec, while at New York flour has been carried out for six

pence sterling per barrel to Liverpool.

When the effect of the repeal of the navigation laws brings more vessels into Quebec than are required for timber, outward freights from the lakes may pour down the St. Lawrence, and the rates of freight come down to a standard which will make the whole cost of shipment from the lakes to Europe via the St. Lawrence as favorable

as via New York.

THE MAGDALEN ISLANDS.

This group of islands occupies a prominent position, almost in the centre of the Gulf of St. Lawrence, and directly in the track of vessels bound up the gulf for Quebec. Including the Bird and Brion islands, which evidently form part of the group, the whole length of the range

is about fifty-six miles in an east-northeast direction.

Amherst island, the most southern of the chain, is nearly oval, nearly six miles in length, and three and a half in extreme width. Its harbor is the best in the chain, with a narrow but straight entrance, over a soft ooze bar, for vessels drawing eleven to twelve feet water. This island is eighteen leagues northwest of Cape Breton; the same northward of Prince Edward island. It is thirty-six leagues from the

nearest point of Newfoundland, seventy-five leagues from the French settlements at St. Pierre and Miquelon, and one hundred and eighty

leagues eastward of Quebec.

The central portions of the Magdalen islands rise into hills, varying from two hundred to five hundred and eighty feet above the sea; their tops are rounded. On the sides of these hills are found stratified deposites of sandstones and ochreous clays, with gypsum in the hollows and basins, and also occasionally in veins.

The water of many springs and rivulets is so salt as to be unfit for use; and although rock salt has not yet been found, yet it is believed

to exist in these islands.

The gypsum forms an article of export. On one of the group it is found of exceeding fine quality, and very white, approaching to alabaster in purity.

The principal dependence of the inhabitants is upon the cod fishery, although they also prosecute the herring and seal fisheries to some

extent.

There are at present upon these islands about two thousand inhabit-

ants, the majority of whom are French Acadians.

The fisheries around the Magdalen islands are very excellent, and afford a profitable return to the industry of those who prosecute them. If arrangements were entered into by which our citizens could have the right of setting up fishing stations on these islands, and of prosecuting the various prolific fisheries in the surrounding seas, it would be of very great advantage to them, and open a wide field for their energy and enterprise. They would also gain the early and late fisheries, from which they are now debarred, whose advantages have been already mentioned.

These islands were formerly attached to the government of Newfoundland, but at present they are under the jurisdiction of the Canadian government. The whole group was granted by the British government to Admiral Sir Isaac Coffin, R. N., for distinguished services; by him they were bequeathed in strict entail to his nephew, Captain John Townsend Coffin, R. N., the present proprietor, and to his heirs

male forever.

The value of the various products of the fisheries exported from the Magdalen islands in 1848 was \$224,000; but it is believed that this did not include large quantities of such products carried off in fishing vessels not cleared at the custom-house. But even the amount mentioned is quite large as compared with the population, and furnishes proof of the bountiful abundance of the fisheries in the vicinity of the Magdalens, which need only the persevering industry, energy, and skill of our fishermen to be rendered a mine of wealth.

No. 1.—Statement exhibiting the number of American and foreign vessels, and also their tonnage, employed in the trade between the United States and Canada, which entered in and cleared from the lake ports annually, from 1833 to 1851, inclusive.

Years. Entered. Cleared. Entered. Cleared. Tons. Number. Tons.	•		AMERICAN VESSELS.	VESSELS.			BRITISH VESSELS.	VESSELS.			TOTAL T	TOTAL TONNAGE.	
Number. Tons. Number.	Years.	Ent	ered.	Cla	ared.	Ent	ered.	Cle	ared.	Ent	ered.	Cle	ared.
1, 184 176, 596 1, 224 189, 571 315 60, 605 56, 894 1, 499 237, 201 1, 529 2, 072 315, 529 1, 099 170, 138 764 147, 337 764 146, 470 1, 747 293, 916 1, 589 2, 072 315, 524 1, 046 233, 560 1, 036 250, 934 2, 270 456, 329 2, 310 1, 224 222, 762 1, 264 ***26, 910 1, 046 233, 560 1, 036 250, 934 2, 270 456, 020 2, 316 456, 020 2, 316 456, 020 2, 316 456, 020 2, 316 456, 020 2, 314 456, 020 2, 314 456, 020 2, 314 456, 020 2, 314 456, 020 2, 314 456, 020 2, 314 456, 020 2, 314 456, 020 2, 314 456, 020 2, 314 456, 020 2, 314 456, 020 2, 314 456, 020 2, 314 456, 020 2, 314 456, 020 2, 314 456, 020 2, 314 456, 020 2, 314 456		Number.	Tons.	Number.	Tons.	Number.	Tons.	Number.	Tons.	Number.	Tons.	Number.	Tons.
963 146,579 1,099 170,138 764 147,337 784 146,470 1,747 293,916 1,883 2,072 335,229 2,101 335,524 1,574 271,630 1,584 276,366 3,646 606,859 3,685 1,129 200,722 1,138 212,003 1,186 249,933 1,177 256,544 2,179 456,329 2,300 1,129 206,037 1,138 202,722 1,187 256,544 2,179 456,320 2,300 2,695 290,355 2,746 291,138 1,187 256,544 2,179 451,573 2,169 2,695 290,355 2,746 291,138 1,317 203,484 1,320 224,990 4,014 456,320 2,169 1,701 300,339 1,702 2,846 1,107 253,375 1,127 256,444 2,179 451,573 2,169 1,701 300,339 1,701 1,287 264,944 1,301 224,444 <td>1833</td> <td></td> <td>176, 596</td> <td>1. 224</td> <td>189.571</td> <td>315</td> <td></td> <td>305</td> <td></td> <td>1,499</td> <td></td> <td>1,529</td> <td>246, 465</td>	1833		176, 596	1. 224	189.571	315		305		1,499		1,529	246, 465
2, 072 335, 229 2, 101 335, 254 1, 574 271, 630 1, 584 276, 966 3, 646 606, 859 3, 685 <	1834		146, 579	1,099	170, 138	764		784		1,747		1,883	316,608
1, 224 222, 762 1, 264 ** 226, 910 1, 046 233, 560 1, 036 250, 934 2, 270 456, 329 2, 310 1, 129 206, 027 1, 138 212, 033 1, 166 224, 993 1, 176 269, 778 2, 315 456, 020 2, 314 1, 012 198, 198 1, 104 200, 728 1, 167 253, 375 1, 177 26, 654 2, 179 451, 573 2, 169 2, 66 200, 355 2, 746 200, 728 1, 319 234, 522 1, 320 4, 014 503, 201 4, 016 456, 020 2, 346 1, 701 300, 939 1, 705 295, 901 1, 391 234, 522 1, 382 357, 424 3, 092 535, 461 3, 067 1, 963 1, 701 300, 939 1, 705 296, 901 1, 317 200, 644 1, 340 297, 424 3, 092 535, 461 3, 067 1, 963 1, 902 2, 704 3, 082 4, 014 4, 014 4, 014 4, 014 4, 014	1835	2.075	335, 229	2, 101	335, 254	1,574		1,584		3,646		3, 685	611,520
1,199 206, 027 1,138 212,093 1,186 249,993 1,176 269,778 2,315 456,020 2,314 1,012 198,198 1,042 202,728 1,167 253,375 1,177 256,544 2,179 451,673 2,169 2,695 290,355 2,746 291,138 1,319 234,522 1,320 237,424 3,092 535,401 3,169 1,701 300,935 1,776 389,665 1,978 330,061 1,557 260,110 1,596 277,424 3,092 535,401 3,674 1,951 388,665 1,978 330,061 1,557 260,110 1,596 277,424 3,092 535,401 3,674 1,052 188,049 277,702 1,810 271,531 1,317 203,644 1,340 299,099 3,186 481,346 3,574 1,052 188,049 2,742 3,092 535,441 3,092 535,441 3,062 535,441 3,062 535,441	1836	1,224	222, 762	1,264	\$ 226,910	1,046		1,036		2,270		2,300	477,844
1,012 198 19	1837.	1,129	206,027	1,138	212, 093	1, 186		1, 176		2, 315		2,314	481,871
2, 695 290, 355 2,746 291, 138 1,319 212, 846 1,320 224, 990 4,014 503, 201 4,066 1,701 300, 939 1,705 226, 901 1,317 234, 522 1,324 3,092 535, 461 3,067 1,861 320, 931 1,705 286, 901 1,557 260, 110 1,586 277, 724 3,092 535, 461 3,074 1,862 377, 702 1,810 271, 531 1,317 203, 644 1,596 229, 009 3,186 481, 346 3,177 1,652 186, 049 264 665, 682 1,933 307, 941 1,902 312, 377 4,642 997, 296 4,566 4,264 4,309 997, 296 4,566 4,264 4,309 3,146 4,309 3,146 4,306 4,264 4,309 3,146 4,306 4,264 4,264 3,146 4,309 997, 296 4,566 3,160 4,264 3,146 4,309 997, 296 4,566 3,161 4,26	1838.	1,012	198, 198	1,042	202, 728	1, 167		1, 127		2, 179		2, 169	459, 272
1,701 300, 939 1,705 295, 901 1,391 234, 522 1,382 237, 424 3,092 535, 461 3,067 1,951 388, 865 1,978 330, 061 1,557 280, 110 1,557 3,092 535, 461 3,077 3,092 535, 461 3,077 3,092 588, 795 3,574	1839.	2,695	290, 355	2,746	291, 138	1,319		1, 320		4,014		4,066	516, 128
1,951 328, 685 1,978 330, 061 1,557 260, 110 1,596 275, 242 3,508 588, 795 3,574 1, 869 277, 702 1,810 271, 531 1,317 203, 644 1,340 229, 009 3,186 481, 346 3,150 2, 709 689, 355 2,664 665, 829 1,933 307, 941 1,909 3,186 481, 346 4,564 2, 614 646, 045 2,635 663, 916 1,665 283, 101 1,629 273, 464 4,309 927, 146 4,364 2, 612 787, 804 2,864 800, 757 1,562 299, 810 1,524 301, 468 4,374 1,087, 614 4,389 1,564 2, 135 618, 443 2,132 616, 398 1,546 273, 178 1,550 273, 38 3,681 891, 621 3,582 1,444, 510 8,075 1,1 2, 336 777, 815 2,500 890, 204 2,767 537, 699 4,569 8,075 1,444, 510 8,07	1840.		300, 939	1,705	295, 901	1,391		1, 362		3,092		3,067	533, 325
1, 869 277, 702 1, 810 271, 531 1, 317 203, 644 1, 340 229, 009 3, 186 481, 346 3, 150 1, 052 188, 049 396 ±, 179, 591 778 120, 693 771 128, 365 1, 835 308, 742 1, 767 2, 709 689, 355 2, 644 665, 862 16, 695 281, 11 1, 902 313, 377 4, 642 997, 296 4, 566 2, 614 646, 046 2, 635 663, 916 1, 695 281, 10 1, 629 273, 464 4, 309 997, 146 4, 364 2, 812 787, 816 1, 562 299, 810 1, 524 301, 468 4, 374 1, 087, 614 4, 388 1, 682 2, 135 616, 398 1, 546 273, 178 1, 550 273, 336 3, 681 891, 621 3, 682 3, 618 891, 621 3, 619 1, 546 2, 767 577, 574 6, 276 1, 292, 915 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	1841		328, 685	1,978	330, 061	1,557		1,596		3, 508		3, 574	605, 303
1,052 188,049 996 \$\alpha 1.996 \$\alpha 2.709 689,385 1,835 1,835 1,835 1,767 1,767 2,709 689,385 2,664 665,682 1,933 307,941 1,902 312,377 4,642 997,296 4,566 2,614 646,045 2,684 665,882 1,695 281,101 1,629 377,377 4,642 997,296 4,266 2,812 787 812 787 1,695 289,101 1,624 4,309 927,146 4,264 2,135 618,443 2,132 616,398 1,546 273,178 1,550 273,336 3,681 4,389 1,681 3,681 891,621 3,682 1,586 4,309 982,631 1,685 37,318 1,566 273,336 3,681 4,389 1,682 37,318 1,566 273,336 3,681 1,882 1,982 1,982 1,982 1,982 1,982 1,882 1,882 1,982 1,982 1,982 1,982 </td <td>1842</td> <td>1,869</td> <td>277,702</td> <td>1,810</td> <td>271, 531</td> <td>1, 317</td> <td></td> <td>1,340</td> <td></td> <td>3, 186</td> <td></td> <td>3, 150</td> <td>500, 540</td>	1842	1,869	277,702	1,810	271, 531	1, 317		1,340		3, 186		3, 150	500, 540
2, 709 689, 355 2, 664 665, 852 1, 933 307, 941 1, 902 312, 377 4, 642 997, 296 4, 566 2, 614 646, 045 2, 635 665, 852 1, 635 381, 101 1, 629 373, 464 4, 309 927, 146 927, 127 928 1, 254 927, 127 928 1, 254 927, 127 928 1, 244, 510 827, 127 928 1, 244, 510 827, 127 928 1, 244, 510 827, 127 928 1, 244, 510 </td <td>1843</td> <td></td> <td>188,049</td> <td>966</td> <td>\$ 179, 591</td> <td>7.63</td> <td></td> <td>771</td> <td></td> <td>1,835</td> <td></td> <td>1,767</td> <td>307, 956</td>	1843		188,049	966	\$ 179, 591	7.63		771		1,835		1,767	307, 956
2, 614 646, 045 2, 635 653, 916 1, 695 281, 101 1, 629 273, 464 4, 309 927, 146 4, 264 2, 812 787, 804 2, 864 800, 757 1, 562 299, 810 1, 554 301, 468 4, 374 1, 087, 614 4, 388 1, 362 2, 135 618, 443 2, 132 616, 398 1, 546 273, 178 1, 550 273, 336 3, 681 891, 621 3, 682 3, 636 777, 815 3, 612 777, 716 2, 640 515, 100 2, 579 501, 724 6, 276 1, 292, 915 6, 191 1, 1, 582 5, 339 906, 813 5, 680 899, 755 2, 803 919, 515 3, 238 447, 372 3, 681 8, 106 1, 444, 510 8, 075 1, 1, 444, 510 8, 075 1, 244, 510 8, 075 1, 244, 510 8, 075 1, 244, 510 8, 075 1, 244, 510 8, 075 1, 244, 510 8, 075 1, 244, 510 8, 075 1, 244, 510 8, 075 1, 244, 510 8, 075 1, 244, 510 </td <td>1844</td> <td>2,709</td> <td>689, 355</td> <td>2,664</td> <td>665, 852</td> <td>1,933</td> <td></td> <td>1,902</td> <td></td> <td>4,645</td> <td></td> <td>4,566</td> <td>978, 229</td>	1844	2,709	689, 355	2,664	665, 852	1,933		1,902		4,645		4,566	978, 229
2,812 787,804 2,864 800,757 1,562 2999,810 1,524 301,468 4,374 1,087,614 4,388 1,51 2,135 618,443 2,132 616,388 1,546 273,178 1,550 273,336 3,681 891,621 3,682 3,636 777,815 3,612 777,716 2,640 515,100 2,579 501,724 6,276 1,392,915 6,191 1, 2,836 906,813 5,300 890,204 2,767 537,697 2,775 563,649 8,106 1,444,510 8,075 1, 2,876 897,551 3,282 447,372 3,086 455,982 6,158 1,337,127 5,889 1, 2,925 1,013,275 2,634 997,513 3,634 8147,373 3,681 89,156 1,527,658 6,355 1,527,658 6,355 1,527,658 1,527,658 1,527,658 1,527,658 1,527,658 1,527,658 1,527,658 1,527,658 1,527,658 1,527,658 1,527,	1845		646, 045	2, 635	653, 916	1,695		1,629		4, 309		4, 264	927, 380
2, 135 618, 443 2, 132 616, 398 1, 546 273, 178 1, 550 273, 336 3, 681 891, 621 3, 682 3, 636 777, 815 3, 612 777, 716 2, 640 515, 100 2, 579 501, 724 6, 276 1, 292, 915 6, 191 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	1846		787, 804	2,864	800, 757	1,562		1,524		4, 374		4,388	1, 102, 225
3, 636 777, 815 3, 612 777, 716 2, 640 515, 100 2, 579 501, 724 6, 276 1, 292, 915 6, 191 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	1847	2, 135	618, 443	2, 132	616, 398	1,546		1,550		3,681		3, 682	889, 734
5,339 906*813 5,300 890,204 2,767 537,697 2,775 563,649 8,106 1,444,510 8,075 1,444,510 2,876 889,755 2,803 919,515 3,282 447,372 3,086 455,982 6,158 1,337,127 5,889 1,587,658 2,925 1,013,275 2,634 927,013 3,634 514,383 3,621 *516,883 6,559 1,527,658 6,255 1,527,658	1848		777, 815	3,612	777, 716	2,640		2, 579		6,276		6, 191	1, 279, 440
2,876 889,755 2,803 919,515 3,282 447,372 3,086 455,982 6,158 1,337,127 5,889 1, 2,925 1,013,275 2,634 927,013 3,634 514,383 3,621 516,883 6,559 1,527,658 6,255 1,527,658 6,255 1,	1849.	_	906,813	5,300	890, 204	2, 767		2,775		8, 106		8,075	1, 453, 853
2,925 1,013,275 2,634 927,013 3,634 514,383 3,621 516,883 6,559 1,527,658 6,255 1,527,658	1850	2,876	889, 755	2, 803	919, 515	3, 282		3,086		6, 158		5, 889	1, 375, 497
	1851	2,925	1, 013, 275	2, 634	927, 013	3,634		3,621		6, 559		6,255	1,443,896
			72										

No. 2.—Comparative statement of the total "movement" of property on the ton Bay canals, and St. Anne's Lock, for

Description.		Wel	land.			St. Law
	1848.	1849.	1850.	.1851.	1848.	1849.
Forest	136, 0564 43 11, 2444 45, 354	141,534 25½ 17,693½ 42,931	145, 769	249, 6441 240, 1112 362 14, 6721 41, 406 145, 756	81, 307 ½ 587 ½	70, 310 89, 501 833 4, 215 17, 247 31, 047
Totaldo	307, 611	351, 596	399, 600	691, 657½	159, 267	213, 153
Passengersnumber Boats of all kindsdo Total tonnage of vessels	3,280	1, 640 2, 278 468, 410	1,938 4,761 587,100	4, 758½ 4, 916 700, 168	21, 071 5, 648 476, 875	26, 997 5, 448 444, 640

S. Doc. 112.

Welland, St. Lawrence, Chambly, (including St. — Lock,) and Burlingthe year 1851 and three preceding years.

rence.			Char	nbly.		Builings	on Bay.	St. Anne	'a Lock.
1850.	1851.	1848.	1849.	1 850.	1851.	1850.	1851.	1850.	1851.
124, 9482 80, 6872 1, 2612 8, 5102 24, 0694 48, 625	1,390° 9,535	16,564 49 28 1,305 889	61, 164 7, 858 18 64 6, 764 1, 348	79, 1192 21, 1464 6863 4, 5102 3, 577	93 584	24,113 478 318 7,431	18, 8192 601 7161	1,486	93, 403 1, 176 299 1, 609 5, 005 4, 441
288, 103	450, 400 }	18, 835	77,216	109,0403	110, 7263	54, 9963	58, 1073	59, 839 ‡	105, 933
35, 932 6, 169 460, 180	33, 986 7, 626 545, 598‡	470 659 22, 322	8, 430 1, 264 128, 642	278 2, 878 143, 194	1,860 1,342 90,893	473,690	2, 523	1,550 124,302	14, 130 1, 984 101, 938

No. 3.—Statement showing the value of imports into Canada, at each port, in 1851, with the countries from whence and the route by which imported.

4	E							
F018.	Lotal value imported from all parts.	From United States.	From Great Britain.	From Brutsh N. American colonies.	From other countries.	Bonded im- ports.	Total value im- ported inland, via U. States.	Total value im- ported by sea, via St. Law- rence.
Amherstburg	#15,	Value. \$14,616	Value.	Falue.	Falue. \$768	Value. \$852	\$14,616	\$92\$
Burwell Belleville. **Bondhead	55, 716 98, 524	55,716 82,352	15,968	4	140	504 1, 244	8, 504 55, 716 83, 608	8c0 14,916
Chatham. Chippewa	51 318	51, 696 316, 204	1.792		156	376 968	51,696	
Cobourg	142,	125,464	14,640		2,072		125, 464	16,912
Credit	`&`&`	8, 556 65, 316	26,568	5,756	460	32, 784	8, 556	32.724
Dover.	15, 81,	\$5,676 76,580	280 5, 180			840 5, 180	15,676	280 928
Dunnville Fort Erie Goderich	36,592	36, 592				3,800	110,840	
*Grafton	r i	086,01					10, 580	
Hamilton.	ଊ	1,044,736	1,124,836	20, 696	8,032	348,012	1,019,408	1,178,892
Kingston	1,	915,912		3,580	8,596	31, 520	919,724	106,568
Oakville	W.	42,576	•	208	1,600	7, 164	30, 952 42, 576	8,228 170,264
Penetanguishene		840 252					840	
Pictou.	70, 176	35,924 59,084	8,364	158	2.648	508	35, 524	8,764
Rowan		12, 236 30, 996				456	30, 996	A4, U4, U4, U4, U4, U4, U4, U4, U4, U4, U

		D. Duc.	112.
1,401,928	11, 156	14,668	8,095,792 1,008 3,221,620 51,472 53,680
173, 728 19, 668 284, 872 1, 200, 000 2, 628.	219, 720 11, 100 11, 968 9, 740 9, 740 15, 804 6, 444	107, 780 288 17, 248 7,004 25,820 3,532 13,688	17, 984 1, (81, 372 4, 464 11, 656 97, 392 1, 947, 452 4, 676 113, 996 5, 956 1, 212 1, 212 1, 212 1, 880
17, 288 400, 000 48	55,012 20,940 3,064	1,848 14,552	73,024 6,008 172,860 9,900
36, 572	15,040		484.516 6,008 36,960 164,480
5, 252 24, 900			252, 292 304 163, 528 4, 372 13, 508
2, 512 1, 014, 836	58, 904	16,512	7,358,984 200 136,604 2,850,500 46,484 39,832
173,728 19,668 284,872 1,525,620 2,580	164, 768 1, 100 11, 952 2, 564 9, 740 15, 804 6, 444 15, 928	105, 936 2248 17, 248 7, 6014 25, 820 3, 532 13, 648 7, 364	17,984 1,081,372 40,400 11,636 11,774,593 1,774,593 22,120 22,120 5,956 1,212 1,212 1,312 1,880 1,880 1,880
173, 728 19, 668 292, 636 2, 601, 928 2, 628 31, 596	233, 712 1, 100 23, 124 2, 564 9, 740 15, 804 6, 444 15, 928	122, 448 2848 17, 248 7, 004 25, 820 3, 532 13, 628	17, 984 177, 164 16, 636 11, 636 11, 948, 460 23, 335, 616 22, 120 5, 956 13, 212 13, 212 6, 360 53, 353 53, 580
Sandwich Sannia Stanley f Toronto Wellington	Brockville. CMatland Cornwall Coteau du Luc Dickenson's Landing Gananoque Mariatown	Rrivite aux Raisins. St. Regis. St. Regis. Clarenceville Freligheburg. Hereford. Hemmingford	Lacolle. Montreal Philipsburg. Potton Stanstead St. John. Sutton Quebec I.a Beauce Eigin. Wallaceburg. Bruce Mines. Gaspé New Carlisle

* No return.
† The last three columns for this port are calculated from proportions at Hamilton, the collector of Toronto not being able to distinguish the route of his imports.

THO3. C. KEEFER.

STATEMENT-Continued.

Port.	Total value imported from all parts.	Total value im. From United From ported from States.	m Great ritain.	From British N. American colonies.	From other countries.	Bonded im. Topo ports.	Total value imported inland, ported by sea, via U. States. rence.	Total value im- ported by sea, via St. Law- rence.
Sault Ste. Marie. New Castle. Stamford. Milford.	\$12,124 3,928 27,744 1,876	Value. \$1,232 3,928 27,744 1,876	Value. \$10,892	Value. Falue, Falue.	Value.	Value.	\$1,232 3,928 27,744 1,876	\$10,892
Total	23,250,440	8,936,236	12,876,828	497,400	939, 976	1,240,828	8, 788, 712	14,461,728

No. 4—Statement showing the value of exports from Canada, at each port, in 1851, with the countries to which exported.

			EXPORTE	D to—	•
Ports.	Total value.	Great Britain.	B. N. American colonies.	United States	Other countries.
Amherstburg	8 79, 408			\$79,480	9
Bath	21,428			21,428	
Belleville	147, 368			147, 368	
Burwell	132, 360			132, 360	
Chatham	31,196 7,598			31,196 7,528	
Cobourg	71,612			71,612	
Colborne	944			944	
Gredit	201, 852	\$20,584		181,268	400 010
Dalhousie	356,072 29,960		\$11,160	317, 296 29, 960	\$27,616
Davington	151,404			151, 404	
Dunnville	85, 164			76, 416	8,748
Fort Erie	31, 276			31, 276	
Goderich	3, 264			3, 264	
Grafton	3,992 365,252		12,004	3,992 353,248	
Hope	100, 408		12,004	100,408	
Kingston	421,016			421,016	
Niagara	2,088			2,088	
Oakville	122,880			122, 880	
Owen's Sound	776 3,736			3,736	
Pictou	17,808			17, 808	
Queenston	28, 444			28, 444	
Rondeau	21,268			21,268	
Rowan	53, 480 39,836			53, 480 39,836	
Sarnia	45,844			45,844	
Stanley	271, 116		185,408	85, 304	404
Toronto	327, 318			327, 368	
Wellington	22,884			22,884 201,164	
WhitbyBrockville	201, 164 70, 648			70,648	
Maitland	3, 592			3, 592	
Bytown					
Cornwall	10,236				
Coteau du Lac	8, 824 4, 132			8,824 4,132	
Dickenson's Landing Dundee	12,944				
Gananoque	6, 320			6, 320	
Mariatown	24,008			24,008	
Prescott	32,960			32, 960	
Rivière aux Raisins St. Regis	6,292			6, 292	
Clarenceville	485			488	
Frelighsburg	16, 296			16,296	
Hereford.	15, 452			15,452	
Hemmingford	11, 180 4,308			11, 180 4,308	
Huntingdon	27,500			27, 500	
Montreal	2, 503, 916	1,470,772	480,728	272,416	280,000
Philipsburg	88,968			88, 968	
Potton	40 100			40 100	
Stanstead	40, 128 905, 276			40, 128 905, 276	
St John	300,210			300,210	
Quebec	5, 623,988	4,888,084	353, 056	19, 452	363, 396
Napance	43,196			43, 196	

S. Doc. 112.

STATEMENT—Continued.

			EXPORTE	р то—	
Ports.	Total value.	Great Britain.	B. N. American colonies.	United States.	Other countries.
Beauce Elgin Wallaceburg. Bruce Mines Gaspē. New Carlisle Sault Ste. Marie. New Castle Stamford. Milford. Bond Head Russelltown.	4,784 61,564 67,644 141,740 80,100 10,220 12,516	\$28, 436 27, 968		\$6,416 4,784 61,564 67,644 724 10,220 12,516 10,480 5,992	\$101,98 44,54
Total	13, 262 376	6,435,844	1,060,544	9,039,300	826,688

The returns of exports from inland ports to other countries than the United States are very doubtful. None are reported from Toronto, the largest inland port. With respect to the route of such exports, it is presumed they were made via the St. Lawrence; in which case they should be included in those of Montreal or Quebec. But as these exports were obtained from the head office, it is to be inferred that they are direct exports from inland ports not included elsewhere. It is possible a portion of them may have been exported inland, in bond, through the United States, although all such exports are said to be reported as "to the United States."

THOS. C. KEEFER.

No. 5.—Comparative statement of imports inland, via United States, with imports by sea, via St. Lawrence, 1851, distinguishing the principal articles.

	8E.	A.			
Articles.	Montreal and Quebec.	Direct at ing land ports from sea.	Total sea	Inland imports via U. States.	Total imports by sea and inland.
Tea	\$152,556 18,924	\$15,528	\$168,084 18,924	\$893, 216 403, 860	\$1,061,300 422,784
Cotton manufatures Woollendo	2, 218, 364 1, 719, 872	799,968 581,944	3,018,332 2,301,816	565, 124 439, 260	3,583,456
Hardwaredo	1, 237, 340	389,868	1,627,208	318, 844	2, 741, 076 1, 946, 052
Wooden-ware	11, 612 6, 764	88	11,612 6,852	53, 724 85, 768	65, 336 92, 620
Boots and shoes Leather manufactures	6, 512 26, 196	26,960	6, 868 53, 156	42, 592 47, 388	49, 460 100, 544
Hides Leather, tanned	1, 164 46, 312	128	1, 164 46, 440	89, 204 126, 232	90, 368 172, 672
Oils, not palm Paper	135,440 53,180	268 12,048	135, 708 65,228	47,804 32,996	183, 512 98, 224
RiceSugar	12, 396 586, 604	125,804	12,396 712,408	19,600 278,468	32,316 990,876
Molasses	60, 968 23, 792	2, 168	60,968 25,980	19, 296 79, 816	80, 264 105, 796
G ass	77,124 101,176	1, 136	78,260 101,176	18, 828 38, 652	97,088 139,828
Furs	82, 116 401, 904	7,916 5,588	90, 032 407, 492	44, 264 80,768	134, 296 488, 266
India-rubber do Dyestuffs	156	233,168	233, 324	53,960	287, 284
Coffee	38,916 13,632	**************************************	38, 916 13, 632	12,680 116,988	51,596 130,620
Fruit	53, 552 71,260	752	54, 304 71, 260	81,144	135,449 88,804
Unenumerated	4,159,586	940,608	5, 100, 188	4,780,372	9, 880, 560
Goods in transit for U.S.	11, 317, 412 755, 588	3, 144, 316	14,461,728 755,588	8,788,712	23, 250, 44 755, 58
•	12,073,000	3,144,316	15, 217, 316	8,788,712	24, 006, 02

The large amount of "unenumerated" values renders this statement but approximate, because the enumeration of sea imports is much fuller than those inland, where, at some ports, no enumeration of articles is made.

THOMAS C. KEEFER.

S. Doc. 112.

No. 6.—Value of direct imports from sea at

					•			_				
Articles.	Amherstburg.	Bath.	Belleville.	Cobourg.	Dalhousie.	Darlington.	Dover.	Hamilton.	Port Hope.	Kingston.	Niagara.	Oakville,
Tea Tobacco Cotton manufacture. Woollen manufacture Hardware Wooden ware Machinery Boots and shoes. Leather manufacture Hides Leather manufacture Leather, tanned Gils, not palm Paper Rice Sugar Molasses Salt Glass Coal Furs Silk manufacture India rubber do Dyestuffs Coffee	\$640	\$880	\$2,220 4,304 1,172 200	\$10,580			12	383,960 269,788 177,856 **12,960 5,620 53,076 **680 536	\$9,068 5,500 428 2,288	\$10,712	\$752 2,716 44 508	
FruitFishUnenumerated Total value by sea	128		5,612	4,772	\$32,784	\$280	1	150,464 1,178,892	1,320	95,404	3,044	\$170,264

The above statement is designed to show the principal articles which are imported direct from sea, at inland

MONTREAL. May 1, 1852.

inland ports, via the St. Lawrence, in 1851.

Picton.	Queenston.	Port Stanley.	Toronto.	Whitby.	Brockville.	Cornwall.	Prescott.	St. John.	Bruce Mines.	Gaspe.	New Carlisle,	St. Marie.	Total.
,	.,,,,,,		\$8,000					%					\$15,528
\$5,304		******	408,000 288,000 188,000	\$860 788	6,716	******	*******			******			799,968 581,944 389,868
******			14,000	******	88 356					••••••	•••••		88 356 26,960
******			6,000		128 268					*******			128 268 12,048
******	******		56,000 800 800		890			\$708					125,804 2,188 1,136
1,180 900	*		3,480		2.104								7,916 5,588 233,168
******								300		******		1	752
1,380 8,764	\$11,092 11,092		309,048		4,984 19,932	I———	\$14,668 14,668	I			\$53,680 53,680	\$10,892* 10,892	940,608 3,144,31 6

^{*} Imported via Hudson's Bay.

ports, the names of the ports, and their comparative importance in this trade.

THOS. C. KEEFER.

No. 7.—Comparative statement of imports of leading articles into Cunada in 1850-'51, showing the countries from prize imported.

•			
er toreign ries.	1851.	\$65,284 2,380 624 20,624 9,484 9,484 20,773 7,620 7,620 7,620 7,620 7,620 7,620 7,620 7,620 7,540 8,420 23,576 23,576 23,576 23,576 23,576 23,576 23,576 23,576 23,576 23,576 23,576 24,576 24,576 27,540 27,	939, 970
r rom other torcigi countries.	1850.	\$32, 400 10, 540 115, 876 115, 876 118, 874 128, 740 128, 740 138, 744 138, 744 138, 744 138, 744 138, 744 138, 744 138, 744 138, 744 138, 744 148, 900 11, 108 11, 1	365,216
rom Briush colonies.	1851.	\$2,832 8 8 8 48 152 152 152 152 152 152 152 153 153 153 153 163 153 153 153 153 153 153 153 153 153 15	497,400
From Bruc	1850.	#8,420 464 92,92 28 28 20,5,268 48,828 1,204 1,204 1,204 312 312 312 312 312 312 312 312 313	390,072
ed States.	1851.	#888 264 415,800 562,904 - 430,550 430,560 54,576 64,576 64,576 150,856 97,128 31,932 11,932 19,272 19,272 19,272 19,272 11,288 42,580 42,580 14,582 14,582 14,583 14,832 11,833	8, 936, 236
From United	1850.	#727, 360 #421, 800 846, 376 421, 800 846, 376 393, 452 393, 452 106, 432 106, 432 107, 040 108, 380 108,	6, 594, 860
ıt Britain.	1851.	\$52,976 2,050,312 1,454,0312 1,454,0312 1,454,0312 1,5932 41,368 46,348 100,308 11,648 17,932 11,648 17,932 11,648 17,932 11,648 17,184 17,184 27,846 57,84	12,876,828
From Great	1850.	\$167,588 1,730,348 1,730,348 1,730,346 3,960 3,960 3,092 27,736 79,920 6,808 185,008 185,008 185,008 185,330 36,208 36,208 36,208 13,388 13,388 18,408 104 42,316 55,332 36,208 36,208	9, 631, 920
value.	1851.	\$1,049,428 3,526,234 1,836,234 1,836,116 1,937,116 107,388 1172,192 1172,192 1172,192 1172,192 1172,193 1174,193 82,368 109,300 92,692 141,928	23, 250, 440
Total	1850.	\$335,768 423,492 3,1637,664 1,321,044 40,488 76,144 15,110 124,124 15,120 159,120 80,401 80,4	16,982,068
A serial or	Articles	Tea. Tobacco Cotton manufactures Woollan. do. Hardware. Wooden-ware. Wooden-ware. Wooden-ware shorts and shoes. Leather manufactures. Hides. Leather (tamed). Oila (not palm). Paper. Rice. Sugar. Molasses Salt. Fins Silk manufactures. Silk manufactures. Silk manufactures. Silk manufactures. First Codfiee. Silk manufactures. First First Fruit. Fruit. Fruit. Fruit. Fruit. Fruit. Fruit.	

cles which pay specific duites, (tea, sugar, coffee, sait, &c.;) and are therefore fully reported, there is a marked increase; also in "unenumerated" there is nearly double the corresponding amount for 1850. Many collectors do not enumerate. "I a valorem" goods, but return them as "goods at 124 per cent.," &c., which embraces all manufactures. Great exertions we e The same increase which The total imports of 1851 exceed those of 1850; and in the arti-THOS. C. KEEFER. This partial enumeration explains the apparent decrease. Norg.-There is an apparent decrease in cotton and woollen manufactures, which arises from imperfect enumeration. made in 1850 to enumerate the articles; but, even then, all manufactures were ander the real import. obtains on the total import should be applied to all manufactures to give the true import for 1851.

MONTREAL, May 1, 1852

No. 8.—Comparative statement showing the total value of imports and Exports at each port in Canada in the years 1850 and 1851.

	1850	٠.٠	Total value of	1851	51.	Total value of
Ports.	Exports.	Imports.	exports and imports.	Exports.	Imports.	exports and imports.
Amherstburg	\$28, 228	\$93, 579	\$51,800	\$79,480	\$15,384	\$94,864
Bath	36,112	17,260	53, 372	21,428	9,384	30,813
Belleville.	201,940	95,640	297,580	147,368	4 98,524	245,892
Burwell	91,816	19,904	111,720	132,360	55, (10	20,070
Chambers	91,910	159 900	190,356	7,598	318,152	325,680
Cobours	54, 584	87.244	141,828	71,612	142,376	213,988
Colborne	2,212	4,044	6, 256	944	7,516	8,460
Chedit	238, 132	9,268	240,700	201,852	8,556	210,408
Dalhousie	318,112	57, 580	375, 692	356,072	98,100	454,172
Darlington	66, 336	16, 280	82,616	29,960	15,956	45,916
Dover	108,640	62,048	170, 683	151,404	81,750	233, 164
Dunnville	15,604	59,092	74, 696	85, Ib4	110,840	190,004
Fort Erie.	37,992	24,276	92,202	31,270	30,392	12 844
Crouerien	13,012	5,100	000,000	2, 204	10,000	3 999
Hamilton	352, 892	1.583,132	1.936.024	365,252	2, 198, 300	2,563,552
Hope	129,028	58,296	187,324	100,408	79,016	179,424
Kingston	350,248	499,044	849, 292	421,016	1,026,292	1,447,308
Niagara	11, 128	63, 996	74,124	2,088	39,180	41,268
Oakville	178,604	41, 564	220, 168	122,880	212,840	335, 720
Owen's Sound	2,264	1,112	3,3/6	97.7	840	1,010
Feneranguisanene	404	91 860	010	17, 808	44 988	69, (196
Dusqueter	24,504	98,000	83,308	98,444	70, 176	98.620
Rondage	408,408	3, 488	39,68	21, 268	12,236	33,504
DOM:	36.856	18, 068	54,924	53,480	30,996	84,476
Sandwich	35,936	55,736	91,672	39,836	173, 728	213,564
Sarnia	8,336	21,300	29,636	45,844	19, 668	65,512
Stanley	135, 396	208,456	343,852	271,116	292,636	563, 752
Toronto	27.0, 3250	K, 936, 692	z,609,120	321,300	K, 0, 11	4,343,030

Comparative statement showing the total value of unports and exports at each port in Canada—Continued.

	1850		Total value of	1851	51.	Total value of
Forts.	Exports.	Imports.	exports and imports.	Exports.	Imports.	exports and imports.
Wellington	\$53,876	\$5,452	\$59, 328	\$22,884	\$2,628	
Whitby. Brockville	137, 612	28,984	166,596 304,336	70,648	31,596 239,712	232,760
Maistand	6,364	2,208	8,572	3, 592	1,100	
Cornwall	4.272	16,276	20,548	10, 236		33.360
Coteau du Lac.	12,300	332	12,632	8,824		11,386
Dickenson's Landing	3,868	11,428	15, 296	4,132	9,740	13,875
Cananomie	4 939	97,360	19, 292	6,320	15, 504	19, 764
Mariatown	16.448	12,804	29, 252	24,008	15,928	39, 936
Prescott	23,400	57, 696	81,096	32, 960	122, 448	155, 408
Rivière aux Raigins		784	784		288	286
St. Regist.	4, 336	13, 552	17,888	6, 292	7,248	23,540
Clarenceville	11,695	10 959	31 648	16. 996	95, 850	49.116
Tereford	43,576	.200.	44, 276	15, 25	3,53	18,984
Hemmingford	12, 144	10,048	22, 192	11,180	13, 688	24,868
Huntingdon	4, 448	7,396	11,844	4, 308	7,364	11,675
Lacolle		13, 580	13,580	27, 200	17,984	45, 484
Montreal	1, 744, 772	6, 905, 400	8, 650, 172	2, 503, 916	9,177,164	11, 681, 086
Philipsburg.	225,096	89,280	314,376	89,368	46, 408	135,876
Stansford	46.579	57.544	104, 116	40 198	97, 392	137,526
St. John	1,215,836	1,477,784	2, 693, 620	905,276	1,948,460	2,853,736
Sutton		6,980	086'9			4,61
Quebec.	5,190,096	1,976,556	7, 166, 652	5, 623, 988	ണ	8,959,60
Napanes,				43, 196		65, 31
Beauce	7,676	4, 132	11,808	6,416		12,37
Were 11 - the contract of the	0.5 630	12 010	200	401 664		20,00
WV MIRCEDUIC		それつのす機	21010	FOO'TO		

										Ю.	DOC
٠			22, 314					5,992	36,912,816	ence, whether to been infringed. ded, neither the f \$2,200,000 for	Keefer.
			12, 124			1,876			23, 250, 440	un the St. Lawra a few instances, 51) is not inclu ade of Auebec o	THOMAS C. KEEFER.
67.644	141,740	80, 100*	10,220	12, 516	4	10,480		5, 992	13, 662, 376	nland ports dov gulation has, in \$756,000 in 18	
48.300	166, 740		36, 480	45,444		5,416	43, 232	2, 472	28, 943, 772	l exports from i vebec. This re rence (valued ging mill give En p	
7, 684	49.912		28, 604	8,040		988	3,348	2, 472	16,982,064	nited States; al Montreal and Quates via St. Law	
40.616	116,828	200 604	7.876	37,404		4,428	39,884		11,961,708	inland to the Uthe seaports of re the United St.	a ior that year.
Dance Mines	TO BOOK AND THE PROPERTY OF TH	None Carlon	Soul Ste Marie	Now Catte	Sample of the control	Millord	Bondhead	Russelltown		The exports at inland ports comprise only the value exported inland to the United States; all exports from inland ports down the St. Lawrence, whether to Montreal and Quebec. This regulation has, in a few instances, been infringed. In the above return the value of goods imported in transit for the United States via St. Lawrence (valued at \$756,000 in 1851) Is not included, neither the value of goods in England, valued at about \$1,04,000 in 1851; which items will give an addition to the trade of Quebec of \$2,200,000 for	1551, and of course the same addition to the whole trade of Canada for that year. Montrell, May 1, 1852.

No. 9.—Comparative statement of exports inland and by sea from Canada in 1851, showing the principal articles.

Ash timber Birch Deal ends Elm Oak Fine, white Pine, red Staves, standard Staves, other Plank and boards Spars, masts, and handspikes. Lath and firewood Shingles Cows and other cattle. Horses Wheat Flour Indian corn	765, 924 14,896 18,464 18,684 196,420 189,876 518,528 416,232 64,488 358,844 937,480 50,216 32,076 260 40 200	\$65, 992 14, 620 160, 884 16, 524 1, 372 774, 116 6, 116 39, 800 20, 732 140, 176 185, 848	\$831,916 14,696 18,464 18,684 196,420 204,496* 2,095,644 \$ 81,012 360,216 1,711,596 56,332 71,876 20,992 140,216 156,048
<u> </u>		. 41,896	635,944 2,631,632 26,056 76,036 81,796 137,980 233,732 38,008 41,896 42,752 52,620 3,168,076 13,175,336 265,924 221,116

The returns of exports inland are very imperfect, and will not correspond with the United States imports from Canada.

It will be seen at the bottom that there is a "direct expert" from inlanda ports, which was neither to the United States nor from Montreal and Quebec. It is to be presumed that this was cargo sent to sea from inland ports and not reported at Montreal or Quebec, although such report is compulsory on all inland craft proceeding to sea.

THOS. C. KEEFER.

No. 10.—Statement showing the value of imports, dutiable and free, into Canada from the United States, the amount of duties collected, the total value of exports, and the tonnage, steam and sail, inward and outward, at each port, in 1851.

		ish.	Sail		1, 350 5, 229			1,243		3, 023 5, 694				926	10, 718	27,366	000	12, 532	151
	VESSELS OUTWARD.	British.	Steam.	Tons.	85	3, 421		18,963		316		5, 730		320	898	1,286		7, 950	
	WESSELS (rican.	Sail.	Tons.	* 455 38,883	10,365	2,361	751	152	1.924	575	8,831	2,7,7	:	6, 623	1,420		1,409	249
		. American.	Steam,	Tons. Tons.	580	:	115	928		336		25, 639	9	4,822	72, 454	400, 722	:		
4	exborta	to sulav 2 besint	I lato T J of		21, 424		31,036	7,528		181,268					353, 248	100,404 $421,016$	2,088	122,870	3, 732
		British.	Sail.	Tons. 3,280	1,350	8, 256	1,776	1 050	460	3,023		6,987	201	956	10,718	39, 682	1,884	607	151
	NWARD.	Bri	Steam.	Tons. 12,631		3,680	26,854	006 76	2,202	400	23, 035	5, 730		320	909,6	85,319	301, 427	7 950	150
	VESSEL\$ INWARD.	can.	Sail.	Tons. 237	455	10,106	1,852	000	3,989	804	1,20	8,831	1,110	:	7,448	13, 362	1,037		249
	,	American	Steam.	Тонз. 36.318	507		115		414		TOP	25, 639	99	4,823	72,824	370 467	148,889		
ű.	importa i free.	io suls ons sids	r latoT sitnb	15, 384	9,384	98, 524	51,696	318, 152	7,516	8,556	15,956	81,760	36, 592	10,580		79,016			252
	sboog e	erî îo etroqmi	9µlaV		33.33		8, 536	170, 108	20		1,280	8, 440	7.336			179 680	1,096	1,816	3
	nty col-	b lo tr bətəəl	nom A	\$1.856	1,684	14, 500	6,208	16,008	13, 340 892	1,712	2,468	10,756	4,008	1,376	165, 124	10,896		5, 284	. 28
	-mi əldı bəsinU	of dutis mort e	esslaV troq tasZ		9,384			148,044	ć.	8,556	14,676	73, 320	29, 256	10,580	,049,	71, 728		40, 760	252
		Port.		Amherstburg	Bath	Belleville	BondheadChatham	Chippewa	Colbourne	Credit	Darlington	Dover	Fort Erie	Goderich	Grafton. (No return)	Hoper	Niagara	Oakville	Penetanguishene

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181	onia Onite	ty col-	spoods:		•	VESBELS INWARD.	NWARD.	•	exports tates.		VESSELS	VESSELS OUTWARD.		
Ports.	sa.	t of du.	of , free betredm	i lo suls bas sida	American.	can.	British	ish.	to sular S besint	Ame	American.	British.	ish.	
Value	droq State	anomA'	əulsV i		Steam.	Sail.	Steam.	Sail.	v fatoT J ot	Steam.	Sail	Steam.	Sail,	
Pictou	732	\$6,036	\$1,556	\$44,288	Tons.	Tons. 1, 199	Tons. 656	Tons. 1, 648	\$17,808	Tons.	Tons. 488	Tons.	Tons. 689	~
Queenston	3,320	8,088	15, 764	59, 084 12, 236	207	362			28,440	414			417	• -
Rowan 30, Sandwich 148.	, 996	6.664	25.008	30, 996	19,647	3,600	442	7,028	53, 472 39, 832	19,647 27,701	3,600	442	- 6,831 15,480	0
	9,000	2,788	14 984	19, 668	12,848				45,844	12,671	1.557		4,413	•
· 4 ·	9,620	233, 836		1, 525, 620	701	4,644	142, 992		327, 368	701	4,644		11,552	- 1
: :	456		3, 492	29,948			89,600		201, 164	: :	3, 750	89,600	12,600	~.
Brockville	,556	28, 036	23, 212	164, 7687	349, 543	2,422	14, 205	405	3,592	43,608	114	25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5		
-		1,540	730	11,952	Mail stea	mers	0.0		10, 232	:	Ga	610	011	
		848	2,704	9,740	No record	kept			4,132		3	3		
-	4,556	1,920	1,248	15,804	:	52	3,480	2,852	12,932		52	3,480	3, 328	
		2,088	1,796	15,928					24,008		598		50	
		11,316	34, 112	105,936	No record kept	kept	:	:	32, 960	No record	rd kept	:	:	
		2, 136		17,248	None given				6, 292	: :				
-	4,428 F		2,576	7, 004				:		:	115	:::::::::::::::::::::::::::::::::::::::	:	
		488		3,532					15,448					
Hemmingford 13	, 688	•••••••••••••••••••••••••••••••••••••••	:::::::::::::::::::::::::::::::::::::::	13,688							•		•	

				~. D	
2,690	22, 623	1, 727 3, 446	10, 306 100 214	3,313	206, 371
599	1,029			16,400	564, 089
4,953	11,063	1,839	3, 182	167	153, 670
OG 6	132, 105		200		753, 310
27, 500 272, 416 88 968	40, 124 905, 276	19, 452 43, 196 6, 416	4, 788 61, 564 67, 640 724	10, 220 12, 512 10, 480	4, 929, [184
5,518	23, 724	4, 809 3, 149	10, 306 678 775	512 2,087	119, 139
3,818	857		8, 100	15, 480	852,448
2, 669 5, 462 16, 612	10, 768	1,741	3, 182, 574	50	139,867
None 1, 947 898 930	131, 163		300	* * * * * * * * * * * * * * * * * * *	1, 236, 523
7,364 17,984 1,154,393 40,400	11,636 97,192 1,774,592	167,000 22,120 5,956	1,212 13,212 6,360 1,880	340 3,928 27,744 1,876	9, 117, 768
1, 432 1, 604 266, 436 3, 756	3, 776 14, 740 299, 540	26, 436	104	6,408	1, 146, 388
624 2, 124 154, 296 4, 000	Not given. 11,264 244,492	18, 352 3, 448 384	2, 128 2, 108 820 820 376	2,764 2,764 2,764	1, 166, 144
16, 887, 36,	52, 1,475,	140, 18,00,	13,	3, 928 3, 928 21, 336 1, 584	7, 971, 380
Huntingdon Lacolle Montreal Philipsburg	Stanstead S2. John	Quebec Napunee. La Beauce	Wallaceburg. Bruce Mines. Gaspe.	New Carliele New Castle Stamford	

The dutiable and "free" goods are separated as far as practicable. Many collectors' returns do not distinguish these heads. The total value of dutiable and free goods imported from the United States, as per this return, is \$9,117,768; whereas in the other returns, the value of imports from the United States is set down at \$6,93.536—a discrepancy arising from the double returns of collectors, which it is impossible to reconcile without too much loss of time by further reference to the collectors. THOS. C. KEEFER.

No. 11—Comparative statement of the quantity and value of the principal articles of Canadian produce and manufacture exported.

during the years 1850 and 1851, and indicating to what country exported.

QUANTITY AND VALUE OF EXPORTS.

Articles.	Qua	Quantity.	Value	
d	1850.	1851.	1850.	1851.
Product of the Mine.				
Copper ore do copper contract of the copper c	243 552	1, 205 1-5 19 3-20 90½	\$14,580 \$2,000	\$44,000 6,752 36,000
Total product of the mine			36,580	86, 752
Product of the Seas.				
Fish, dried	48,852 5,492	75,0641	112, 636 27, 816	179, 680 52, 452
Fish oilgallons.	1,058	8, 498	4, 924 672	13,380
Total product of the seas			146,048	249, 296
Product of the Forest.				
Ashes, pot.	31,389 11,178	27,944 8,463	* 945, 748 327, 828	689, 984
Limber, birch	1,713 4,63 38,212	3,018 4,143 35,644	6,852 28,524 291,276	14, 904 22, 020 196, 584
Timber, mapledododo	140	4493	. 632	1, 740

	~*	2000	. 114.		100
229, 840 1,627, 888 459, 500 5, 660 23, 760 972 83, 076 969, 376	44, 240 957, 476 836, 552 56, 404 45, 304 31, 520 31, 520 45, 168 45, 168 45, 168	6,063,412	212, 772 115, 032 4, 944 8, 260 23, 696	19, 036 2, 828 262, 400 13, 2~0 4, 652 71, 968	8,080 420 1,276 268
257, 1, 184, 469, 5, 9, 1, 7, 1,	35, 428 585, 340 797, 180 61, 060 28, 184 15, 528 12, 632 24, 492 77, 550	5, 142, 936	233,512 94,544 2,152 18,212	26, 833 122, 268 132, 268 3, 788 1, 788 29, 496 9, 652	176 168 3,916
40,9763 453,435 91,145 4,3564 11,1943 1,195 7-10 4,5693	729 659 3 526 647 120, 175 596 17, 356 20, 972 34, 425		4, 176 9, 171 219 3, 403 16, 762	4, 150 1-7 8843 8843 28 5473 2, 3674 4092 11, 160	164, £00 108 61 444
30, 446 372, 742 89, 196 1, 007 243 243 4, 170	472, 184 2, 998, 603 122, 240 32, 206 6, 067 17, 350 27, 095		4, 434 8,301 1,184	6, 742 920 11, 785 171 3, 335 600	23. 23.
Timber, oak Timber, pine, white Timber, pine, white Timber, pine, red Timber, manarack Timber, walnut Timber, walnut Saves, other walnut Saves, other walnut Saves, other walnut		Total product of the forest	Animals— Horses Cows Cows Oxen Hogs Sheep Sheep Product of animals—	Beef. Butter. Butter. Cheese. Tallow.	Candles pounds. Tongues. Bones. Hides number.

STATEMENT-Continued.

QUANTITY AND VALUE OF EXPORTS.

•	Quantity	otity.	Value.	
المرادية المرادية				
Articles.	1850.	1851.	1850.	1851.
Product of animals— Hoofs Horns Wool. Besswax Honey	20 276, 691 387, 343 1, 455	7 1-10 410, 101 610, 560 1, 560 345	\$528 192 56, 856 25, 792 336 630, 330	\$160 604 80,504 52,944 52,944 320 40
Total animals and their products			000,000	1
Vegetable food— bushels Wheat barrels Indian corn barrels Barley and rye. do. Meal barrels Biscuit barrels Beans and pease do. Oats pounds Bran do. Prions and other vegetables do. Wait do. Apples Apples	1, 295, 029 650, 439 60, 313 60, 514 4, 707 1, 594 258, 901 663, 652 29, 182 39, 182 1, 354 1, 354 1, 354 1, 354 1, 354 3, 538	933 756 668,633 51,503 180,446 5,511 2,757 172,837 12,223 1,965 24,634 14,333 3,969	1, 073, 132 2, 743, 184 34, 486 31, 064 16, 044 4, 688 121, 656 134, 640 2, 156 2, 156 2, 156 3, 156 6, 176 6, 176	887, 180 86, 330 26, 428 86, 224 19, 286 100, 100 134, 404 6, 316 7, 493 7, 493 8, 856 6, 652
Total vegetable food			4, 184, 136	3, 766, 388

S. Doc. 112.

S. Doc. 112.

STATEMENT—Continued. TO WHAT COUNTRY EXPORTED.

				-				
Articles.	Great	Great Britain.	North A	North America.	United States.	States.	Other foreig	Other foreign countries.
	1850.	1851.	1850.	1851.	1850.	1851.	1850.	1851.
Product of the Mine. Copper ore.	\$14,580	\$26, 380			499.500	\$17,620		
Fine copper.						36,000		
Local product of the mine	14, 580	26, 380			22, 000	60, 372		
Product of the Seas.								
Fish, dried Fish, pickled Fish, fresh.	4, 640 792 552	27, 488 1, 312 2, 816	\$3,572	\$16,772 9,683 476 904	8 25,932 4,924 73	30, 830 30, 521 12, 900 52	\$104,508 924	\$135,416 10,620
Total product of the seas	5,783	31,616	3,840	27,848	30,940	43, 784	105, 476	146,040
Product of the Forest.								
A shes, pot. A shes, pearl Timber, ash.	584, 968 246, 124 6, F52			25, 380	360,776 81,700	50,492 6,328		
Timber, elm Timber, maple. Timber, oak Timber, pine, white	221, 276 628 251, 004 1, 055, 096	196,288 196,288 1,616 189,700 1,525,450 1		296 18,468 3,420	6,396	21. 672 96, 988		

2,432 488 396	3, 320.	2, 500 2, 500 2, 608
2, 920 12 504 504	4, 100	2, 2, 3, 36,4 2,40
3, 593 23, 016 800 1, 726 1, 732 41, 848 41, 848 830, 372 6, 116 6, 116 13, 956 28, 108 32, 008 41, 460 79, 292	1,283,380	212, 572 114, 992 14, 992 2, 260 23, 696 2, 616 56, 204 6, 364 1, 380 1, 380 896 2, 282 2, 283 2, 28
276 9, 144 1, 588 1, 248 1, 248 28, 980 1, 264 7, 844 1, 193 115, 193 12, 693 12, 693 12, 693 12, 693 12, 693 13, 856	1, 542, 784	223, 412 94, 544 154 18, 152 18, 168 3, 048 46, 896 2, 068 2, 068 1, 136 9, 624 9, 624 3, 916 646
1, 404 264 16, 844 14, 788 2, 264 2, 264 2, 264 2, 264 1, 292 1, 292	88, 728	8, 672 2, 808 79, 880 3, 476 64, 108 4, 108 4, 556
2000 8, 972 36 704 108 292 292	10, 544	100 7, 033 4, 820 29, 296 1, 292 21, 452 28, 452 28, 452 28, 452 28, 452 40
558, 096 2, 068 452 62, 172 63, 174 352, 852 50, 020 33, 563 3, 548	4, 683, 076	200 40 40 145, 608 1, 936 4, 234 6, 480 1, 024 1, 024 1, 024
469, 956 4, 752 120 68, 432 262, 012 64, 412 584, 064 53, 012 26, 252 1, 552	3, 885, 500	19, 528 1, 004 4, 708 4, 369 4, 364 132 132 168
Timber, pine, red. Timber, tamarack Timber, awalnut. Timber, basswood, butternut, and hickory. Staves, standard. Staves, other Bat ens, knees, and scantling. Treenails, &c. Dea's. Plank and boards. Spars, masts, and handspikes. Lath and frewood Shings Sawlogs Other woods.	Total product of the forest	Animals— Horses Cows. Cows. Oxen. Hogs Sheep. Product of animals— Bacon and hams Butter Laut. Cheese. Pork. Tallow. Tallow. Tallow. Tallow. Hoofs. Hoofs.

STATEMENT-Continued.

TO WHAT COUNTRY EXPORTED.

	Great]	Great Britain.	North America.	merica.	United States.	States.	Other foreign countries.	n countries.
Articles.	1850.	1851.	1850.	1851.	1850.	1851.	1850.	1851.
Product of animals—Wool Wool Eggwax. Beeswax.	*164	\$150 40		\$1,464 28	\$56, 856 25, 792 172	\$79, 136 52, 912 200		
Total animals and their products	72, 396	170,872	\$64,664	144, 464	490, 652	565, 884	\$2,604	\$6, 29 ₂
Vegetable food— Wheat. Flour. Indian corm Barley and rye. Biscouit. Biscouit. Beans and pease. Oats. Hops. Bann and other vegetables. Malt. Apples. Total vegetable food.	66, 156 630, 256 17, 524 17, 524 89, 128 89, 128 100 3, 016	142, 532 996, 848 14, 780 2, 368 37, 116 260 3, 500 1, 097, 508	13, 548 659, 860 6, 288 1, 352 14, 800 3, 060 3, 304 1, 080 1, 080 1, 080 1, 080	87, 656 617, 084 11, 276 14, 884 8, 820 3, 220 2, 852 184 184 184 184 193 1, 248 1, 248 1, 248 1, 248	1,451,456 10,451,450 10,644 29,712 1,148 29,364 1131,332 2,156 2,156 2,056 2,076 2,076 2,076	1, 157, 088 1, 159, 140 85, 760 2, 004 19, 764 131, 552 6, 135 6, 135 6, 135 6, 130 1, 904 1, 909, 228	1, 600	10,220
Flaxseed	260	328	5962	898	21,876 28,952	7,512 27,924		

				ь.	Doc	· 1.	1 ≈ .	
							660, 804	826,688
				424		424	2, 448	116, 656
288 60	35, 788		14, 136 1, 520 3, 296 236			45, 064	.1, 195, 788	4, 939, 300
1, 125	51,956	10,924	1,703 460 3,164 756	764 764 120 268	884	19, 480	125, 744	4, 951, 156
90	880		1,372	4, 104 1, 536 1, 128	148 28	9, 744	39, 440	1, 060, 544
	296	164	1,264	168	176	5, 236	12, 600	808, 776
440	1,356	4.		56	112	316	419, 704	6, 435, 844
944	1, 504	89	340 760 72	44 136 120	153	1,564	15,700	4, 803, 396
BalsamTobaccoT	Total other agricultural products	Manufactures. Iron	Cotton Woulen Lether	Gilars Gilars Wardware Whiskey Beer, ale, and cider	Uner apirits from grain	Total manufactures	Other articles and unenumerated	Grand total

The return for 1851 is not as full as for 1850; consequently there is an apparent decrease in detail, although there is a large increase in the gross exports. The "other articles and unenumerated" comprise omissions of enumerated articles, which (if known) would show an increase in articles, corresponding to the total increase, in almost every item of export. THOS. C. KEEFER.

No. 12 .- Statement showing the value of the leading dutiable articles

					0				5, (1,600	-	a		
Ports.	Tea.	Tobacco.	Cotton manufact's.	Woollen manufac-	Hardware manu- factures.	Woodenware.	Machinery.	Boots and shoes.	Leather.	Hides.	Leather, tanned.	Oils not palm.	Paper.
Amherstburg	\$1,412	\$260	\$692	\$460	\$2,068	\$744		****		\$2,236			
Bath Burwell	1,540 5,740	648 1,844	1,216 4,560	1,572 1,932	6,436	1,080	97,060	\$140 2,654	\$440 804	132 148	\$ 128	\$904	\$116 72
Belleville	17,320	7,388	8,908	10,132	8,484	744	4,472	2,928	140	264	1,552	886	1,480
Bondhead Chatham	*****		• • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •	••••							
Chippewa	******		*****						*****				
Chippewa	12,828 304	4,148 140	6,584	12,976	7,596	1,712	5,872	1,724	288	1,820	1,752	180	1,000
Colborne	2,920	720	1,116 340	356	1,144 232	448		988 648	68	•••••	164	124	24
Dalhousie	8,360	3,432	15,528	4,012	9,436			2,496	168	156		1,448	812
Darlington	2,080 9,096	1,140 3,472	840 8,384	6,608	3,608 6,816	88 1,452	36 1,832	412	3,976	2,512	768 628	600	180 232
Dunnville Fort Erie			*****										
Fort Erie	1,096 1,416	704 524	2,360	2,392 36	4,368 464	1,680 372	316	576 344	188	20 124	2,524 208	124 112	168 52
Grafton		324	1,404		404	3/2		344		124	200	112	32
Hamuton	154,512	71,288 5,612	171,428	112,792	118,120					10,808	27,440		8,676
Hope Kingston	14,164	2,172		3,728	9,432	1,244		1,588	164		2,928	624	864
Niagara	3,868	898	2,260	4,088	2,438			1					
Oakville Owen's Sound	5,080 18	1,984 4	3,428	876 12	1,220	88	• • • •	1,416		14,044		152 4	288
Penetanguishene													
Pictou	1,932 1,860	796 500	6,328 4,036	4,932 4,096	1,328 2,708	980	1,296	456	4,836	3,872 904	516	104 256	548 472
Rondeau	2,100	444	572	1,692	1,672		1,000	628	80	*****	640		28
Rowan	3,156	1,472		740	6,320	3,894	4,692	1,020	721	96	1,844	284	712
Sandwich	2,128	996	2,376	636	1,408	364			1,180		4321	140	88
Stanley Toronto	55,296 152,820	22,352	15,280	13,980	29,004		12,592	12,376	2,536	5,960	4,120		
Wellington	172	56,472	164	260	32	56	244	96	- 1	24,676 144			28
Wellington Whitby	4,056	2,008	892	268	1,636	320	1,500		976	4,612	20	60	760
Brockville Maitland	31,568 20	9,752	17,600 48	15,888	8,512	3,752 12	4,568	3,736	2,368	4,352	2,096	948	2,980
Cornwall	1,180	824	412	1,528	552	660	256		340		84	92	
Dickenson's Land-	332	40	500	424		••••	•••••				332		52
ing	M88	344		*****							******		
Dundee	732 796	212 388	1,016 332	5,168 224	624 76	1,248 708	448	334	528 24	268	320 8	• • • • • •	,48 4
Mariatown	1,320	772	•••••										
Prescott Riviere aux Raisins	•••••		•••••	******		• • • • •		• • • • • •			• • • • • •		
St. Regis	20	32	24		8,448	636			72		68		
Clarenceville Frelighsburg	336	60	124	•••••	444	872	384	432	300	•••••	408		20
Hereford	136	84	184		1,464		152	512			84		
Hemmingford Huntingdon	2,320 340	812 140	548	164	880	340	112	120	1 000	44	84		8
Lacolle	*****								1,960				
Montreal	114,168 1,500	100,132 964	53,380	22,704	51,644	7,568	35,480	684	4,892	568	12,292	23,548	596
Potton	1,464	620	608	72	1,572	144	500		276	9,884		16	
Stanstead St. John	10,480 236,588	5,380 62,788	18,108	4,396	9,292	948	1,332	5,260	648	880	4,936	804	. 428
Sutton	440	316	205,184 472	194,936 80	384	15,908	256	28	18,208 48		57,572 EU	13,612	11,168
Quebec Napanee	18,852 2,308	26,784	1,988	1,392	4,376	4,961	32		148		1,416	1,864	1,060
La Beauce	8	816	3,492 56	2,244	1,192 24	596	332 80		1,284 88	480	604	576	
Elgin	84 1,584	28	52	56					28				
Wallaceburg Bruce Mines		628	2,060 100	776	1,644 648	116	1,676	780		• • • • • • • • • • • • • • • • • • • •	164	260	32
Gaspe	208	432					1,070	164	,		20		
New Carlisle Sault Ste. Marie	E0	96 16		*****								• • • • • •	
New Castle		40	36	588	576	48	248		524	200			
Stamford	12	4		•••••	•••••	• • • • •							
		400.000	ECE 10:	100.000	210.0								
Total	893,216	403,860	565,124	439,260	318,844	53,724	85,768	42,592	47,388	89,204	126,232	47,804	32,996
										ι	!	ı	1

From the above statement "free goods" have been excluded as far as practicable; in several ports, however, returning only the gross values at the different rates of duties.

Montreal, May 1, 1852.

imported into Canada from the United States, at each port, in 1851.

	1		1	1	1		,	1 1		1			1	1
Rice.	Sugar.	Molasses,	Salt.	Glass.	Coal.	Furs.	Silk manufactures	India-rubbermanu- factures.	Dyestuffs.	Coffee.	Fruit.	Fish,	Unenumerated.	Total.
\$244	\$880 808 3,044 5,696	\$20 184 204	\$684 1,344 3,836	₿104	\$284 752 1,308	\$ 128	\$1,059 764	\$632 432	\$1,360	\$752 40 208 156	\$480	\$312	\$6,480 1,292 10,772 19,352	\$15,384 9,384 52,384 98,524
360 4 68 220 136 392	864 13 879	1.188	2,912 168 1,608 6,040 1,044 1,636	220 24	1 '		704 436 156 808		1,852 20 20 124 20 292	1,156 48 128 672 108 648	2,084 52 100 656 208 700	68	504 26,536 2716	148,044 125,464 7,496 8,556 97,984
36 76	3,620 264 124 57,608		252 1,612	280	116 84	72	16	16	328	90H 76 24,352	76 68 12,988	1,092 12	999.744	1.049 756
300 256	2,420 8,460 4,500 3,844 4	264 116	3,804 272 2,596 384	784 296 8	364		72		236	648 172	952 2,924 512 40	172	729,676 18,376 4,192 340	71,728 743,232 38,084 40,760 780
60 88	2,216 32 328 860	52 32 24	32 1,516 560	156 428 144	732 52 24 828	168 1,480	756 120	1 36	232 32 144	152	160 380 144	4		42,732 43,320
4,304 16 200	640 20,324 64,140 52 280	160 292 1,944 12 28	800 7,348 17,092 736 4,264	140	24,324		36		40 84 764	272 5,072 27,228	412 3,160 25,112 20 364	20	7,404 60,400 1,127,508	19,668 270,092 1,525,620 2,352 26,456 141,556
424	280 152	140		28 2,220		280		56		752 52 32	1,128 4 16		5,540 548	11,952 2,300
28	20 32 228	32	304 188			124	92	32		32 32	56	12	988	
4	136	72 132		4	8			8		32	136 8 40 32	28	7,600 1,012 18,268 880 10,248	18,268 3,532 13,688
4,952 128	37,564 380 4 192	5,496 224 	44 76 144					1		70 700	916 8,420 528 20 316	2,456 204 864	15,464 335,404 23,064 2,152	16,380 887,956 36,644 7,860
6,564 736 48	28,192 19 4,984 344	6,180 824 156	36 1,228	772 224		25,308 556 44	220	30,296 5,480	3,812	25,432 7,380 124	15,128 4 1,876 48 32	2,256 20 428	483,548 1,856 54,868 3,668 1,716 860	1,475,052 3,984 140,564 22,120 9,440
60	388 140 60	168 172 108	96	56	928 620		116		4	148	260 4 20	12 4	3,928 3,220 660 12	1 939
19,920	92	8	396 416	48 	38,652	44,264	80,768	53,960	12,680	24	28	32	1,104 21,336 1,024 3,963,040	3,928 21,336 1,584
,			l	1				-	ļ ,					

no special returns of free goods were made. The enumeration is likewise very imperfect—some important ports

THOS. C. KEEFER.

No. 13.—Statement showing the quantity and value of the principal arti-

	Ashes and p	s, pot pearl.	Plank boar	and ds.	Shing	les.	Cows other	and cattle.	Hor	ses.	Woo	ol.	Wheat
Ports.	Quantity, barrels.	Value,	Quantity, M feet.	Value,	Quantity, mille.	Value.	Number.	Value.	Number.	Value.	Quantity, pounds.	Value.	Quantity, bushels.
Amherstburg		\$2,460											45,810
Burwell			626	\$4,108	2,384	\$4,180							******
BellevilleBondhead	88	1,904	14,573	116,404	166	432							12,72
Chatham	21	420	******							4500	5,500	\$1,076	27,64
ChippewaCobourg			322 1,120	2,260 8,612	41 122	84 768	36 31	\$72 2,620	10 41	\$508 4,180	4,091 13,615	1,228 10,476	
Colborne													45,230
Dalhousie	::::		1,905 601	9,524 4,808								,	49,65
Darlington Dover		200	1,128 9,271	7,480 59,580	338 502	508 736		• • • • • • • • • • • • • • • • • • • •	16	1,140	3,856	936	6,573
Dunnville	192	4,760	3,696	25,872	945	1,180							19,99
Fort Erie Foderich	3	72	86	844	*****	••••	100	1,000	25	600			1,30
Fratton	102					356					0.000		104.07
Hamilton Hope	165	3,844	5,752 6,050	42,348 38,348	348 1,982	3,312	127	2,860	8	480	2,688	1,156	134,97 12,86 3,51
Kingston Viagara			8,202	63,948	850	2,420	3,499	30,072			159	3,848	3,51 2,50
Dakville			2,637	15,820							1,318	328	99,32
Owen's Sound Penetanguishene	• • • • •		10 314	2,196	109	132	51 60	400 1,312					
Pictou			357	2,376			107	84	[*****
Queenston Rondeau		• • • • •	13	92	28	28	1,611	18,388	98	4,888	4,381 10,283	2,538	1,72 21,99
Rowan	21		7,521	34,080	91	220							
Sandwich Sarnia	763	632 18,128	919	10,224		792	217	2,480		7,488 800	1,118 4,552	224 1,188	
Stanley Poronto	6	144	44	704		• • • • •	356	712		6.20	20,608	3,692	45,94
Wellington		980	4,530	35,300				764					54,90
Whitby Brockville	305	6,100	4,541	45,408	1,502	2,256	100	400 29,804		420	1 100	244	50,1t
Maitland							2,181			22,068		1	
Cornwall					• • • • •		289	3,472	57 99	3,248 4,884	5,55	1,388	17
Dickenson's Landing			13	56	38		203	1,400	· · · · ·				
Dundee			23	232	100			1,635 2,400	156 20	2,808 1,200	43	8	43 25
Mariatown	12				200		767	4,488	3 116	7,464	8,720	1,904	14
Prescott	89	2,492	404	1,192	200	200				1,956	1	1,904	
St. Regis Clarenceville							120	944	218	4,228		• • • • • • • • • • • • • • • • • • • •	20
Frelighsburg	::::		43	464			382	5,968	112	4,460	5,600	1,140	
Hereford Hemmingford		•••••	700	5,600			600	7,500	100	4,000 976	100	24	20
Huntingdon			130		365				2 51	1,240			45
Lacolle Montreal	: ::::		271	1,290	38	59	33	3 46	8 88	4,052			20,49
Philipsburg			12,320	51,420			16	11	549	27,256	3		
Potton	: ;	7 148		35	···i	j	1,01	15,29	6 371	11.096	1,22	240	i
St. John Sutton	. 836	3 23,368	19,502	124,656	2,046				. 962		68,33	9,424	• • • • •
Quebec			1,040					: : : : : :					
Napanee La Beauce		: : : : :	4,200	34,019					. 49	5,72		· ·····	
Elgin		. 1					. 6	693		20	ŏ		
Wallaceburg Bruce Mines	:	2 60	468		١	1 ::::	: :						3,3
Gaspe						6 44	i						
New Carlisle	:	1				: : : : :			1				
New Castle			. 4	3 26)			4 6	io				19,2
Stamford			í	6	4	: ::::	3	ò	30	8 46	o id	3	2
Russelltown												.]	
	0.55	1 0= 00	110.41	C 7700 60	212.22	4 20 50	210.00	9 140,17					

Note.—The reported exports from Canada serve to show from what ports the different articles are sent, and the relbonic statements on the United States frontier, and these last have been employed in estimating the trade between the Montreal, May 1, 1852.

cles exported from Canada to the United States, from each port, in 1851.

Wheat.	Flo	our.	Barley ry	and	Beans peas		Oa	is.	But	ter.	Eggs	3.	lue.	
Value.	Quantity, barrels.	Value.	Quantity, bushels.	Value.	Quantity, bushels.	Value.	Quantity, bushels.	Value.	Quantity, cwt.	Value.	Quantity, dozen.	Value.	Unenumerated-value	Total value.
\$34,3 56	212	&848	32,289	₽6,308	7,822	\$3,552	23,824	\$6,428					\$42,664 · 184	\$79,480 21,428
2,744	2,589	9,908	4,804	1,996	11,727	5,196	13,803	3,316	2	\$28			128,180 5,440	132,360 147,368
15,992	8,056	31,776	1,671 2,649	812 1,316	524	588			77	832			12,064 2,060 12,372	31,196 7,528 71,612
27,136 37,240 3,804 10,660 14,996	51,456 77,880 4,166 20,139	144,076 272,580 15,400 77,364	1,529 1,328	776 539	360	404	7,286	2,176					2,668 188 788	944 181,268 317,296 29,960 151,404
1,840	2,770	11,080	513 15,175	256 8,044	70 200	36 120	3,500 200	916 32	56	800	1,000	\$124	18,27: 17,824 2,06: 3,99:	76,416 31,276 3,264 3,992
107,976 8,060 2,440 2,000	42,417 10,709 4,096	168,620 42,496 13,948	8,642 583 6, 518	9,828 308 3,036	500 660 4,438	248 340 2,176	1,779 90 32,072	1,800 24 8,496	135 59	1,080 628	3,225	108 612	15,995 3,44 290,020 88	353,248 100,408 421,016 2,088 122,880
73,052	8,506 10	31,896 32	1,495	896	20	8	1,270 634 154	316 124 40	9	64		16	57£ 84 5(776 3,736
1,140 12,092	758	2,652	1,312	5,856	13,735	7,376	1,562 26	392 8		296			1,400 3,290 6,600 16,520	17,808 28,444 21,268 53,480
29,672 41,700	1,050 7,525	1,600 4,200 25,704 162,040			451 88 338	336 48 144	435 1,432 1,318	360	67 102 178	936 1,632 1,248	10,251 3,945	1,024 464	24,59 8,000 18,93 86,58	39,836 45,844 85,304 327,368
31,736	208	832 109,196 356	2,400 491	1,200	746	15,936 320 228 700	8,010	1.312	428 27	4,472	752	76	1,96 13,14 39	22,884 201,164 70,648 3,592
120 272			1,373		392	112	10,900	1,180 3,772 568		24	150	12	1,960 3,508	10,236 8,824 4,132 12,944
188 116		472	10,821	5,420	l	252	7,621	1,960	26	1, 3,100	1,000	76	1,396 852 14,080	6,320 24,008 32,960
124	39	156			53 160		280	100	ii	1,308	1,953	196	908 192 2,632 3,104	6,292 488 16,296 15,452
Bie		45 500		4	1,281	19	2,500 1,726 19,817	624 344 5.824	5:	5 728		1,564	3,252 532 15,532 205,040	11,180 4,308 27,500 272,416
18,084	2		9'	28	567	276	8,36	1,048	32	3 2,964		36	10,140	88,968 40,128
	1,325	5,300	13,48	6,58			294,308 1,588	444	<u> </u>	10,628	411,755		5,236 672	905,276 19,452 43,196
1,936	17	7 76					3,459			1,604	700	68	456 1,112 52,092 67,464 212	6,416 4,784 61,564 67,644
11,600					415	1	1						10,220 428	10,220 12,516
28		1 121 49	1146 55	75.59	325								8,884 5,999 1,715,928	

ative export trade of different ports. The correct quantities and values are, however, ascertained from the custom two countries. The inland imports of each country are the only true measure of the respective exports of each.

THOS. C. KEEFER.

S. Doc. 112.

No. 14.—Exports of the principal articl s of Canadian produce and

	Ashe	es, pot pearl.		k and	Shin	gles.	Co	ws.	Н	orses.	W	ool.	Wheat.
	ໜ້	- 		Ī								<u> </u>	
Ports.	Quantity, barrels.		feet.		lle.						ponnod		Quantity, bushels.
	, pa		, ₩		Quantity, mille.				ĺ		ğ		, pu
	ity		Quantity,		dty		er.		er.		Quantity,		tity
	am	Value.	an a	Value.	am	Value.	Number	Value.	Number	Value,	ian	Value.	181
	ď	S S	ਰੌ	A A	ð	Va	N Z	Va	Nu	Λa	đ	ا د	ð
Amherstburg	112	\$2,032											30,900
BathBurwell		168	2,616 14,375	\$21,288 83,372	35	\$44					•••••		4,571
Belleville	338	9,464	10,648	85,184	3,332 92	3,924 92	1	\$16	• • • • •		9,812	\$1,928	30,686
Bondhead	133	3,192	221	1,324	•••••	• • • • •	••••	••••			1 900	240	50,144 42,280
Chatham Chippewa			822	8,220	1,124	1,124	530	5,308	22	\$928	1,200 1,700	180	2,649
Chippewa Cobourg	28	560	1,312	9,640	59	80	41	692	29	2,440	68,768	9,916	310 2,719
Colborne			2,430	14,584									158,063
Dalhousie Darlington	140	3,500	1,007 936	9,076 6,388	4 59	68		••••	••••			•••••	14,985 18,042
Dover	6	52	7,286	51,004	1,110	1,412 712	5	40	5	248	6,160	1,540	5,479
Dunnville	74	3,700	245	1,716	512	712 4	••••	2,576	24	1 000	9,330	1,848	108 11,580
Dover Dunnvile Fort Erie Goderich	3	84							24	1,000		1,010	
Grafton	163	3,764	878 4,794	4,392 33,296	38 395	56 420	2	40			13,000	2,704	97,440
Hope Kingston	16	400	6,027	38,412	356	368			28	1,624	3,654	540]	47,424
Kingston	36 10	1,000 400	6,149	40,600	200	200	61	1,704	211	16,880	30,000	7,600	216,540 7,466
Niagara Oakville	44	1,320	4,518	27,108	200	200							145,839
Owen's Sound	*****		63 60	320 484	••••		••••		• • • •		• • • • • • •	••••	1,135
Penetanguishene			347	2,512	60	60			• • • •				5,907
Queenston		• · · · · ·	50	408	•••••		349	3,076	104	3,284		• • • • • •	35,649
Rondeau Rowan			4,982	23,776	42	0.0		••••					
Sandwich Sarnia	41 50	1,064 1,600	466	2,796	61	132 140	154	2,096	273	14,176	1,251 2,000	240 400	• • • • • • • • • • • • • • • • • • • •
Stanley Toronto							20	240	ħ	300	38,095	7,100	
Toronto Wellington	96	1,680	276	3,092	261	1,132	1	12	• • • • •		72,000	17,812	122,321 30,678
Whitby Brockville	386	6,948	2,537	20,296	277	416	20	320	6	400			69,000
Brockville Maitland	97	2,172	8	4 56	•••••	••••	2,176	24,640	377	22,452	958	236	135 1,421
Cornwall					30	32	18	236	30	1,600			1,410
Coteau du Lac Dickenson's Land-			•••••	• • • • • • • • • • • • • • • • • • • •	•••••	•••••	••••	•••••	86	5,100		•••••	3,074
ing			132	608	10	40	109	1,088	21	1,848			
Dundee Gananoque			610 425	3,048 1,936	35 210	420	207	1,560	177	3,120	• • • • • • •		978 308
Mariatown]		8	8	213	2,376	107	5,140			1,243
Prescott Riviere aux Raisins	345	6,472	113	1,052			196	2,072	91	4,904	224	68	23
St. Regis							6	44	154	3,028			148
Clarenceville Frelighsburg			25	140			208	1,804	247	6,608		:::::	601
Hereford	10	200					2,100	25,500	125	6,652			500
Huntingdon			800 108	6,400 760	104	132	55	700	16 41	760 1,068	67	12	491
Lacolle	•••••												
Montreal	102	3,032	3,559	17,836 34,428	43	44	ioi	860	552	28,264	2,300	500	552
PottonQuebec	• • • • •	•••••				• • • • • •							
Stanstead	20	580	3	14,276 28					398	12,344	1,200	276	759
St. John Saulte Stc. Marie	13,259	373,892	31,896	194,328	1,588	1,812	5	80	1,154	70,540	24,146	3,556	38,858
Gasne			40	400							*****		
Milford New Castle		*****	34 5,769	200 30,348	9 149	12	23	324 96	2	120	636 90	144 20	1,477 1,700
Beauce				******	2,142	2,384		30	1	40	30	20	1,700
Sutton Bruce Mines					•••••		• • • • •						
		100 000	170.500	795,036						•••••			
Total		1.37 976	1 16 566	7US 0961							286,691		1,205,593

The year 1850 was the first in which any return of exports inland was made. It is estimated that about 20 per frequent intercourse that full and regular reports of all outward cargoes are scarcely to be expected.

MONTREAL, May 1, 1852.

manufacture to the United States, by inland routes, in the year 1850.

Wheat.	F	lour.		ey and ye.		s and	o	ats.	Bu	itter.	E	igs.	نه	
Value.	Quantity, barrels.	Value.	Quantity, bushels.	Value.	Quantity, bushels.	Value.	Quantity, bushels.	Value.	Quantity, cwt.	Value.	Quantity, dozen.	Value.	Unenumerated value.	Total value,
\$23,172 3,424	1,444	\$5,164	10,223	\$4,172	2,879	\$1,152	2,000 2,124	\$400 424	1				\$636 26,496	\$25,604 36,472
24,548 37,608 32,184 1,984		75,024		1,440 124	3,728 160	1,864 64 164	1,675		50	\$488 104			26,496 1,899 426 9,176 12,568	2 201,940 3 39,884
2,176 2,176 103,548	30.000	120,000			448				**	4			7,424	54,580 2,212 237,132
13,112 13,356 4,052 100	2,878	47,248 7,704	742		243	96	100	24			******		460 433 3,016 1,844	66,136 108,632 1 315,600
10,712 5,320 80,316	1,360	5,336	609	1,496 224 3,472		588	30,603			1,500		\$112	11,200 1,528 120 8,680	36,380 6,932 4.832
47,000 124,904 5,596	7,685 22,925 1,270 3,679	30,740 93,032 4,939	3,778	5,084	514	260	141	36 40	150 576	1,800 5,576	72	12	6,836 88,060	388,096
132,740 460 4,732 25,252	39	160		••••	543	*****		1,096	4	28			1,292 2,208	2,260 484 14,008
25,252	******	••••	745		74	44	2,053	388	36	540	7,249	728	12,836 16,264 2,400	36,672
40,256 115,308 36,584 51,732	10,000 34,348 2,643	137 399	8,564	2,148 3,428	5,816	1,344 3,172	165,951	33,188	416 124	4,164 1,044	250		26,880 27,188 176	119,948 341,340 53,872
1,008 6,196 1,408 3,048	2,643 13,500 237	54,000 1,012	300	240	500 116 869 922	60 348	10,000 436 45 3,224 12,320	99 16 644	942	11,244			1,248 10,364 88	73,284 6,356 4,268
620 1,232	240	728	41	12	30	12	15,223	2,284	50	552			180 2,636 1,340	14,608 4,928
932 16	392	1,792	33	12	74	28	2,219 367	440 112	40	428	******		964 6,508	23,424
108 404 500	20 17 50	68 300			109 60 1,000	36 252	2,270 131	388 28	304 80	292 800			640 4,988 2,216 9,372	4,988 11,696 43,576
232					63	32	4,567	712	135 31	1,484 312	******		3,400 484	4,444
6,032 492	16	58,636 72	14	40 4	306	320	1,451	388	256	2,384	******		18,704 36,084	(
544 27,112	1 42,310	540 4 181,192	33 4,767	12 2,120	150 25,947	76 13,912		140 103,140	262 935	2,332 9,224	378,495	24,916	63,620 14,648 222,020 7,956	1,227,844 7,956
1,180 1,360	8 484	32 1,936	970	388	188	92	26	8		384			208 1,544 1,004 444	606 4,428 37,288 444
							•••••	104					4,032	104 4,039
992,780	452,589	1,453,376	62,591	29, 708	56,549	29,292	655,039	157,352	4,7121	46,328	387,269	25,788	687,948	5,009,480

cent, should be added to the above for the real over the reported exports. There are so many ferries and such
THOS. C. KEEFER,

No. 15.—General statement showing imports into the port of Gaspé for the year ending January 5, 1852, distinguishing the countries.—General statement showing interesting the countriest.

Articles.	Total quan- tities,	Total quen- Total value.	From Great Britain, value.	From United States, Value.	From British Forth American colonies, value.	From all other foreign coun- trics, value.	From all other Total value im-Total value im- foreign coun- ported inland, via ported by sea, tries, value. United States.	Total value im- ported by sea, via St. Law-
Coffee cwt. Molasses cwt. Tobacco lbs. Brandy galls. Brandy galls. Gin galls. Wine galls. Soice galls. Soice galls. Ninegar galls. Oats bbls Butter cwt. Meats cwt. Fish galls. Cardles cwt. Fish cwt.	10 2 21 100 0 15 926 3 15 8,388 4,283 20,265 20,265 4 2 26 8,265 4 2 26 68 0 0	4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	3.728 3.728 3.540 3.540 4.80 1.800	#80 138 204 204 432 444 444 164	88.98 9.840 9.844 6.82 120 120 120 120 120 120 120 12	33 15 66	96122	

23 688 688 688 53.772 156 836
53,348

J. J. KAVANAGH, Acting Collector.

January 26, 1852.

No. 16.—General statement showing imports into the port of New Carlisle, district of Gaspé, for the year ending January 5, 1852, distinguishing the countries from whence and the route by which imported.

Articles.	Total quan- tities.	Total value.	From Great Brit- ain.	From United States.	From Brit- ish N. A. colonies.
Coffee, greencwt	12 2 27	\$164			
Sugar, refineddo	1 22	" 4	\$1		\$164
other kindsdo	172 0 5	900		\$ 60	840
Molassesdo	434 0 17	1,016		108	904
Tealbs	10, 841	2,744	1,668	60	
Tobacco, manufactureddo	1, 256	2, 328		92	2, 232
Winegallons.	92	20		4	16
Fruit, driedganons	35	28			28 8
Spices.		12	28	· · · · · · · · · · · · · · · · · · ·	۰
Vinegargallons.		32	76		
Occoa and chocolatepounds	589 100	76 4			
Hass		4			4
Leather, tanned		300	156		140
Oil, except palmgallons	459	344	344		4 10
Pork, mess	6	44	011		44
Manufact'd candles		108	108		
		5,092	5,084		. 4
		2,084	1,956		121
hardware		1,448	1,168		276
linen		2,340	2,340		
wool		5, 120	5, 120		
art:cles not enum'd.		6,684	5,524	4	1,152
Coal		84	36		48
Dyestuffs		24			24
ron, bar, rod		192	192		
ron, boiler plate		16	16		
ion hoops		28	, 28		
ard		96	116		
_ead		76	76		
rich and tarbarrels.	84	220	32		188
Rope		544	544		
R sin and rosinbarrel					
Failow		1 050	1 0 0		
Other articles not enumerated		1,256	1, 256		
_		33,500	25,904	340	7,252
Free goods		20,176	13,920		6, 252
6 7 . 12		F0 030			
Total imports		53, 680	33,828	340	13,508
Free Goods.					
nimals, pigsnumber.	3	12			12
Bocksdo	3	12			12
Drawings		32	32		
Maize					
Soda					
Beefpounds	200	8			8
Breadcwt	1, 215	3,308	3,308		
Chocolatepounds	175	16			16
Plourbarrels	365	1,728	1,636		88
Fishcwt.	4,856	12,612			12,612
Mil'stonesnumber.	1	28			. 28
oil, fishgallons	360	250			280
Porkpounds .	1, 400	136			136
altbushels	18, 640	1,552	1,288		264
Wood	********	440			440
<u> </u>					
		20, 176			6, 252

No. 17.—Abstract of the trade of the port of Quebec, showing the ships and tonnage employed, and the relative value of the imports, distinguishing foreign goods from goods of British produce and manufacture, during the year ended January 5, 1852.

0		. m1 6	Value of imports.			
Countries from which vessels entered.	From place of entry.		British.	Foreign.	Total.	
United Kingdom	183 2 16 37 1 1 1 6 8	Tons. 400.798 18,461 581 4,699 13,294 299 129 212 262 1,486 3,030 213 315 3,588	\$2,342,876 134,408	8,264 6,428 5,368 10,728 3,000 9.012 27,316	\$2,342,876 134,408 } *135,184	
house	145	86,504		35,348 129,128	j 129,128	
Total	1,305	535,821	2,477,284	264,316	2,741,600	

^{*}The value opposite foreign places, except the United States, is that which was entered for home consumption. The balance of \$35,348 was placed in the warehouse, of which no separate detail was kept.

Custom-house, Quebec, January, 1852.

*The word British is used in contradistinction to the word fureign, most of the articles exported being of colonial growth and produce.

Custom-House, Quenec, January, 1852.

No. 19.—Statement showing exports from Canada to the United States, at the port of Quebec, in the year ending January 5, 1852, distinct tinguishing the amounts carried in British and American vessels, respectively.

					1	•			
	E	*	Vessels.	sels.		Vessel	Vessels outward.		
Articles.	lotal quantities.	fities.	Value in British vessels.	Value in Brit. Value in American American American ish vessels.	American steamers.	American sailing.	n British		British sailing.
Boards pine piness do no pieces pine Pine do no partels Boards Boards pieces		\$5, 188 107 6, 361 2, 689		No. Tons. No. Tons. No. Tons. **1 **1 **1 **1 **1	No. Tons. No. Tons. No. Tons. No. Tons. *1 148 *1 536	No. Ton *1	3. No. Tor	₹ * : g~~:~	No. Tons. *1 536
Dealsdododododo	6, 436 22, 414 19, 758	1, 402 2, 713 4, 882							†14 1,171
		23,342	\$16,952	\$6,360		1 14	148	1 ::	1,727
	7		2 2 3 4	,					

			_
Articles,	Total quantities.	Total vaule.	
Railroad bars Sat. Coals Brandy Lron, bar, rod, &c.	150, 269 21, 448	\$732,007 1,162 356 204 11,509	
		745, 238	
F 75 121 #			

* Via St. Lawrence. † Via inland, American vessels not being allowed to come down to Quebec. [Fractions omitted.]

Сивтом-ноизе, Quebec, January, 1852.

No. 20.—General statement showing the imports into the port of Quebec for the year ending January 5, 1852, distinguishing the countries from whence and the route by which imported.

Articles.	Total quanti- ties.	Total value via the United States, inland.	Total value by sea, via St. Lawrence.	Total value of the whole.
ENTERED FOR CONSUMPTION.				
Coffee, greencwt	1,207 2 26	\$3,100	\$8,796	\$11,896
Sugar, refineddo	1,274 2 24		9,548	9,584
other kindsdo	25,371 0 1		114,052	114,052
molassesdo	20, 102 0 10		27, 064	27, 064
Tealbs Tobacco, unmanufactureddo	310, 260 225, 082	15, 592 4, 368	55, 296 11,052	70, 888 15, 420
manufactureddo	91, 583	7, 284	3,932	11,216
Cigarsdo	1,548	1,392	588	11,216 1,980 17,732
Spirits, brandygalls	24,540		17,732	17,732
Gindo	27, 591	452	9, 280	9,732
Rumdo			1,964	1,964
Whiskeydo Cordialsdo	1,859		1, 180	1,180
Winedo	65 595	059	30, 640	31, 593
Wine	00,020	332	7, 464	7, 464
Saltbushels	314, 322		18, 824	18, 824
Fruit, green			3, 232	3,232
dried		1, 192	7,584	8,776
Spices Confectionery and preserves			6,360	6, 360
Maccaroni lbs	1 510		708	708
Maccaroni	1,310		148 1,812	148 1,812
Grains, barley and rve.	12, 110		136	136
Beans and pease			28	28
Avecua i i i i i i i i i i i i i i i i i i i			3,792	3,972
Flourbbls		444	532	976
Provisions, buttercwt	2 0 19		. 8	8
Cheesedo.			. 1,068 944	1,068
Honshs	340		. 40	1,028
Ale and beer galls. Cocoa and chocolate Fish, salt and pickled	10, 552			5, 504
Cocoa and chocolate			. 732	732
Fish, salt and pickled		. 16	29, 128	29, 144
11 CS11	,		. 2, 156	2,156
Furs				14, 452
Leather, tanned	•	. 372 2,068		
Oil of all sortsgalls.	87, 740	68		
Oil of all sortsgalls.		640		
Seeds		. 92	392	484
Manufactures, candles			3,588	3,5-8
cotton				319,852
leather India-rubber			. 8,536 156	
iron and hardware		4,960		
linen		1,000	75,644	75, 644
gilk	_			101,859
wood				9, 164
Wool		1,492		340, 57
MachineryArticles not enumerated		14,096	0.46 100	200 08/
Burr stones unwrought	1,000	14,090	940, 100	360, 284
Chain cables			1,300 43,724	1,300 43,72
Burr stones unwrought,	• 60, 855	1	95, 976	95, 976
Dyestuffslbs.	15, 148	A.	6,712	6, 710
Plax, hemp, and towtons.	291 19 2 18	3, 304	19, 244	22, 548
Jank and oakumcwt.	3,528 2 15			
A MINT ONTENTITION OF STREET OF STREET	-1 0,000 0 10	. [. 12,860	12,860

S. Doc. 112.

STATEMENT—Continued.

Articles.	Total quanti- ties.	Total value via the United States, inland	Total value by sea, via St. Lawrence.	Total value of the whole.
ENTERED FOR CONSUMPTION. Lard	2, 195 618 10 0 3 2, 391 33 17 0 22 	476 72 7,668 13,808	\$1, 276 200 3, 916 97, 748 3, 324 5, 012 15, 796 600	\$1, 812 1, 276 200 4, 392 97, 748 3, 396 5, 012 23, 404 5, 796 13, 808 600
Free goods. Maize		792 93, 456 20, 536 113,992	5, 744 51,200 2, 474,728 746, 888 3,221, 616	5,744 51,992 2,568,184 767,424 3,335,608
From Great Britain	8	3 4	2, 625 9, 277 0, 882 1, 119 3, 903	\$2,850,500 157,108 163,528 164,476

Note.—Goods arriving at Quebec for transhipment to other ports are not comprised in this return.

CUSTOM-HOUSE, QUEBEC, January 21, 1852.

No. 21.—General statement showing imports into the port of Montreal for the year ending January 5, 1852, distinguishing the countries whence and the route by which imported.

in- imported by Uses, via St. Lawrence.	512
Total value imported inland, via U. States.	6. 8. 8. 8. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.
All other for- eign coun- tries.	#34, 688 134, 924 134, 960 19, 908 53, 908 64, 88, 232 7, 193 1, 260 17, 524 17, 524 18, 526 19, 666 19, 666 1
British N. A.	#449, 528 11, 008 208 1, 208 1, 268 1, 268 356
U. States.	#19, 54 dec. #10, 64 dec. #10,
Great Britain.	### ### ### ##########################
Total value.	\$24,348 402,368 402,766 39,376 39,324 6,340 11,44 11,44 11,44 11,532 4,960 10,532 4,960 10,532 4,960 10,532 4,960 10,532 4,960 10,532 4,960 10,532 10,53
Total quantities.	2,497 0 27 5 1 3 13,984 3 10 87,418 1 26 31,747 2 27 842,568 347,075 646,124 5,936 1,170 1,170 18,557 18,557 18,627 18,627 18,627 18,638 10,93
Articles.	Coffee, green. Sugar, refined other kinds other do other kinds other kinds other kinds other kinds other kinds other kinds of do Otigars Spirits—Brandy Gin Rum Whiskey Ordial Ordial Whiskey Ordial Ordial Ordial Ordial Ordial Ordial Other Spire Above \$60 per pipe of o above \$60 per pipe of o above \$60 per pipe of o Afried Confectionery and preserves Maccaroni Vinegar. Numes Animals—Horses Books—Foreign reprint of British copyright Works

1,972	15,556 128 8,524	38,784 52,260 31,820 86,284 45,808	2,940	1,8994, 17,17,	2, 360 251, 318 300,048 2, 448 1, 380,788 1, 184,500 1, 1080 2, 008 7, 284
32,788 1,248 3,308 3,768 10,196	136 184 60 72	2,380 1,404 10,968 23,544 280	95, 936 1, 396 4, 952	588 4, 232 50, 440 676 1, 200 14, 108	35,476 1,025 8,684 17,564 18,124 3,904 3,432 1,008 1,088
36 18	-	4,736 16,316 808 5,392	40	400 332 5,188	11, 840 12, 228
	8,534	368 8, 140			122
32, 788 1, 248 3, 308 3, 768 16	136 184 60 72	2, 350 7, 216 1, 404 10, 968 23, 544 280	95, 936 1, 396 4, 952	588 4, 232 50, 440 1, 200 14, 108 34, 360	35, 476 1, 028 1, 028 8, 632 7, 564 18, 124 59, 904 3, 432 1, 088 1, 088
44 1, 936 76	15,556	34, 044 35, 944 30, 640 72, 748 45, 796	2,896	1, 899, 160 7, 912 17, 324 828, 404	251,250 251,212 298,934 1,368,944 1,368,944 1,162,256 1,162,256 2,008 7,284
32, 788 1,248 5,284 3,860 • 16	15, 692 184 188 188 8, 600	2,380 46,004 53,668 42,788 109,932 46,092	95,936 4,336 8,884	588 1, 950, 600 6, 592 18, 860 14, 108 867, 956	37, 840 252, 244 308, 244 10, 012 1, 398, 912 1, 234, 408 3, 432 1, 236 1, 236 3, 100 7, 284
264 10, 102 274 1 8 274 1 8			18, 785 2 24 281	102,631	
Grains—Meal. Flour Flour Cheese Meals, salt. Fresh Pork, not mess.	Ale and beer Cider Cocoa and chocolate. Fish, salted or pickled.	Fur. Glass Leather, tanned Oil, other than palm and coconnut.	Port, mess. Seeds. Rice. tierces. Do how the mess.	and shoe	Machinery Linen Silk. Wood Wood Wool Articles unenumerated Broomcorn. Bark. Bristles. Burr stones, unwrought.

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T. BOUTHILLIER, Collector.

D. 1000	11%.
736 3,300 14,264 14,264 124,404 29,136 1,688 1,688 1,688 29,28 24 24 24 24 24 24 24 24 24 24 24 24 24	14,876 14,876 2,708 11,496 344 4,560 8,095,792
1,724 11,720 1,720 56 56 39,963 1,020 1,020	2, 608 1, 940 179, 924 1, 081, 368
· · · · · · · · · · · · · · · · · · ·	484,512
736 1,244 37,784 34,048 1,688 1,20	25.29,
11, 734 11,000 1,720 56 56 39, 968 1,020 1,060	8 2,608 1,940 179,924 1,081,368
3,340 14,264 14,264 40 940 29,136 64 64 64 837,536 38,416 38,416	14, 876 14, 876 2, 708 11, 476 344 1, 316 7, 358, 984
736 21,724 21,724 25,024 14,344 38,724 38,136 1,688 1,688 1,688 1,020 1,020 1,020 1,020 1,020 1,020 39,968 39,968 39,968	14,876 1,676 2,708 14,104 2,284 179,952 4,560 9,177,164
1, 624 35 4, 250 90, 355	215.283 2,093
Cocoa and chocolate Coiton-wool Coin and bullion Drawings Donations Farming implements Fish, fresh Fish oil For sakins Crindstones Hoops Maines Manures Military stores Military clothing Pototionavool	Potatoes Poultry Sodeseash Sections Sections Settlers' goods. Wheat Wheat Wine for officers' mess. Poultry Squlons.

CUSTOM-HOUSE, MONTREAL, February 2, 1852.

No. 22.—An account of the staple articles, the produce of Canada, &c., exported in the year ended 1851, as compared with the year ended 1850.

PORT OF QUEBEC.

	1851.		1850.	
Description of articles.	Quantity.	Value.	Quantity.	Value.
Apples barrels Ashes, pot do pearl do Ash timber tons. Barley minots. Battens pieces. Beef tierces. do barrels Birch timber tons Biscuit cwt. Butter pounds Deals, pine and spruce pieces. Elm timber tons. Flour barrels. Handspikes pieces. Hoops do Lard pounds Lath-wood and firewood cords. Masts pieces. Meal (corn and oat) barrels Oak timber tons Oars pieces. Oats bushels. Pease and beans do. Pine timber, red tons Ohr do. Spars do. Spars do. Spars do. Tamarack wood tons. do sleepers pieces. Furs and skins pieces.	2, 897 28, 105 9,074 5, 827 11, 543 90, 488 410, 091 2, 690 50 44,000 2, 232 236 3,877 430	\$2,404 86,900 37,372 14,900 408 1,960 1,960 18,468 4,376 26,596 937,480 196,124 570,876 900 2,256 32,080 67,100 9,976 189,308 4,536 2,276 8,960 456,232 1,508,528 30,424 34,676 348,060 2,088 4,640 34,076 348,060 2,080 4,646 12,208	588 2, 434 1, 092 1, 713 3, 470 5, 583 121 692 4, 613 1, 035 182, 023 2, 995, 764 38, 166 151, 094 12, 415 6, 200 2, 970 27, 600 17, 435 11, 541 6, 543 89, 652 326, 033 2, 394 452 3, 394 452 3, 622 3, 622 3, 622 3, 622 3, 622 3, 622 3, 155	\$1,76 6,72 31,00 6,85 1,12 2,08 9,40 28,52 22,62 584,78 220,97 643,02 2,08 20 39 26,25 62,00 8,68,88 251,00 8,72 2,76 3,74 468,97 1,055,09 23,78 468,97 1,055,09 23,78

CUSTOM-HOUSE, QUEBEC, March 13, 1852.

No. 23.—An account of the staple articles, the produce of Canada, &c., exported in the year ended 5th January, 1852, as compared with the year ended 5th January, 1851.

PORT OF MONTREAL.

Description of goods.	Year ended January 5, 1852.	Year ended January 5, 1851.
Acetate of lime	38 casks.	
Apples	515 barrels fresh and 1 box dried	909 barrels fresh.
Ashes, pot	21.042 barrels	14,844 barrels.
Ashes, pearl	6,221 barrels	7,250 barrels.
Bacon and hams	4 hhds. bacon; 5 hhds., 38 tierces, and	518 packages.
	32 casks, 17 barrels, $\frac{1}{2}$ barrel, 3 boxes, and 450 loose hams; of these 5 hhds. and 12 loose hams foreign	010 p.10218011
Balsam	50 kegs Canada and 1 box cherry.	10 1
Barley	2 barrels	19 barrels.
Beef	298 tierces, 670 barrels, and 12 half bar- rels; of these 28 barrels beef foreign.	1,853 barrels.
Beeswax	2 tierces and 1 cask.	27.1 1 2.0041
Biscuit	2,909 bags—1,468 Canada, 1,441 manu-	65 barrels and 204 bags.
	factured in bond.	
Bran		1,000 bushels.
Brandy	20 hogsheads (foreign.)	
Bread	491 bags.	
Bricks		8,000.
Brooms, corn	55 dozen, 1 package, and 1 broom.	
Butter	20,767 kegs, 4 barrels and 12 half barrels, 164 firkins and 251 tubs, 35 minots.	10,015 kegs.
Candles	113 boxes—10 British, 3 Canada, 100 manufactured in bond.	189 boxes.
Cast-iron ware	18 stoves and 8 pieces.	
Cheese	112 tierces, 77 barrels, 4 boxes, 2 packages, 1 cask, 1 case, 1 cheese.	133 packages.
Clocks	8.	
Corn, Indian	54 658 bushels and 200 bags	41,491 bushels.
Flour	230,466 barrels—224,403 Canada, 6,063 foreign.	129,740 barrels.
Furniture	11 packages.	•
Furs and skins	15 packages, 16 casks, 8 cases, 1 pun. 1 tierce, 1 barrel, and 1 bale.	23 packages.
Glass	. 13 boxes and 9½ boxes.	
Grease	. 43 kegs.	ļ
Groats	. 29 half barrels.	1
Hoofs	7 tons, 2 cwt. and 5 pounds.	1
Honey	3 bexes, 3 tins, and 1 case.	0.5
Horns and bones	6,490 horns, and 51 tons, 6 cwt. bones	35 tons horns and bones.
Lard		4 barrels and 208 kegs.
Lumber, viz:		W 40W
Boards	. 6,907 pieces	7,487 pieces.
Deals	1,212 pieces	3.146 pieces.
Billets		622 pieces.
Handspikes		18,032.
Maple	. 9 logs.	
Oars		1,367 pairs.
Sawed pine		338 pieces.
Walnut	. 5.000 feet.	201 001 1 13 131
Staves, std. an barrel.		
Puncheon		. 375,400 pieces.
Llanding	2 000 pieces.	1 4501
Meal, Indian	1,531 barrels	. 1,472 barreis.

S. Doc. 112.

STATEMENT—Continued.

Description of goods.	Year ended January 5, 1852.	Year ended January 5, 1851.
Meal, oat		532 barrels.
Oats		1.072 minots.
Oil cake	88 tons, 8 cwt., 3 qrs	200 tons, 7,608 pieces, and
Onions	160 barrels and 24 bushels	328 barrels.
Ores, copper		
Pails		
Peas	61,476 bushels, 543 barrels, and 50 half barrels.	209,874 bushels and 406 bar- rels.
Pipes, tobacco	1 box	100 boxes and 65 half boxes.
Pork	3,732 barrels, 1 tierce, and 4 half barrels; of these 1,734 foreign.	445 barrels.
Saleratus	116 boxes.	
Seed, viz:	110 551155	
Clover	31 barrels.	
Timothy	26 barrels and 82 casks.	
Millet	6 barrels. •	
Flax		
Soap		849 boxes.
Starch	201 boxes and 1 case pulverized.	
Sugar, maple		
Sirup, maple		
Tongues		44 3
Vinegar	50 barrels	44 casks.
Whiskey	134,010 bushels	87,953 bushels.
Whishey	14 hhds. and 4 quarter-casks, (British.) 30 puncheons British returned.	
Wooden manufactures	71 packages.	
Value	\$1,834,112	\$1,453,680.

In addition to the foregoing, the following goods were exported in foreign ships from this port, which vessels proceeded to Quebec to clear outward, under a license granted in virtue of an order of his excellency the Governor General, in council, of the 23d February, 1850, and whose cargoes will consequently be included in the exports from that port:

Description of goods.	Year ending January 5, 1852.
ApplesBeef	87 barrels. 25 barrels and 5 tierces.
Butter	183 kegs and 50 tubs. 600 boxes.
Flour Hams Lard	6,367 barrels and 613 half barrels. 6 tierces. 292 kegs.
Lumber, viz: Boerds Planks Staves, standard puncheon Oat-meal Paper Pork Tobacco.	340 pieces. 100 pieces. 1, 451 pieces 4, 600 pieces. 50 barrels. 18 bales.
Wheat	1,928 bushels.

Custom-house, Montreal, January 6, 1852.

R. H. HAMILTON, Comptroller.

No. 24.—Statement showing exports from Canada to the United States, at the port of Bruce, in the year ending January 5, 1852, distinguishing the amounts carried in British and American vessels, respectively.

Tons. cvat. qrs. lbs. \$36,000 \$36,000 90 11 1 1 1 6,752 6,753 6,753 19 5 0 0 17,620 17,620 1,7520 1,7500 1,487 barrels. 6,265 \$1,440 4,828 16,000 feet. 160 160 160 17 barrels. 20 20 160 16 barrels. 20 20 16 17 contacts. 16 16 16 17 contacts. 20 16 16 16 contacts. 16 16 16 17 contacts. 16 16 16	Tabl. Tabl. 16,000 feet. 16,000 feet. 5 barrels. 17 cords.
17 cords	43

No. 25.—General statement showing imports into the port of Sault Ste. Marie for the year ending January 5, 1852, distinguishing the countries from whence and the route by which imported.

4.4	quantines. qrs. lbs. 1 10	lotal value.	Britain.	States.	Remarks.
4.00	qrs.				
4	,		Value.	Value.	
4		\$4		*4	
4.4		160	0918		, Imported via Hudson's Bay and Lake Superior.
\$\frac{1}{2} \tag{2} \tag{2}		4, 4	7	#	
	ounds	148	148		
	134do	12		12	
0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.do	36			
	allons	6	33		
	ор.	00 (00	
_	04do	148	148		
		20 5	8	16	
_		97		or	
****	11	27	21 0		
	o gallons	000	-		
	aoa	20 8	ю		
		888	**********	30 8	
	278 bushels	36 36		26	
	II Darrels	40		40	
	14 gallons				
	barrel	4		4	
	21 cwt. 2 qrs. 12 lbs.	920		920	
	4,900 feet	48		48	
		1,192	1, 192		
		1,356			
		4, 560			
		16	16	:::::::::::::::::::::::::::::::::::::::	
	It barrels				
Unenumerated		3,116	3, 156	36	
		12, 124	10.892	1, 232	

Note: The importations from the United States were all by open boats. Those from Great Britain, all via Hudson's Bay, Moose river, and Lake Superior, Costom-House, Port of Sault Ste. Marie, Canada West, January 30, 1852. n boats and canoes.

No. 26.—General statement showing imports into the port of Hamilton for the year ending January 5, 1852, distinguishing the countries from whence and the route by which imported.

	value.	ported in and via United States.	ported by sea via St. Law-
9,292 768 4,944 154,588 11,288 11,288 11,428 27,440 9,630 101,388 27,440 9,630 115,988		\$24,348 6,552 93,956 9,292 1,293 1,293 1,293 1,193 1,142 1,142 1,143 1,1	#4.280 48,772 1,910 1,308 7,528 348 348 348 348 3,956 117,856 117,856 113,169 2,69,788 2,63,788 5,620 3,259 87,652
2, 0,1		20,692	600 600 8,032 1

JANUARY 23, 1852.

JOHN DAVIDSON, Collector.

No. 27.—General statement showing imports into the port of Toronto for the year ending January 5, 1852, distinguishing the countries of the co

S. Articles.	Total quan- tities.	Total value.	From Great Britain, value.	From United States, value.	From British North American colonies,	From all other foreign coun- tries, value.
Coffee Cowt. { 2, 427 0 4 4 4 6, 013 0 17 0 1 2 2 3 18 0 18 0 18 0 17 0 1 1 2 2 3 0 17 0 1 1 2 2 3 0 1 1 1 2 2 3 0 1 1 1 2 2 3 0 1 1 1 2 2 3 0 1 1 1 2 2 3 0 1 1 1 2 2 3 0 1 1 1 2 2 3 0 1 1 2 2 3 0 1 1 2 2 3 0 1 1 2 2 3 0 1 1 2 2 3 0 1 1 2 2 3 0 1 1 2 2 3 0 1 1 2 2 3 0 1 1 2 2 3 0 1 1 2 2 3 0 1 1 2 2 3 0 1 1 2 2 3 0 1 1 2 2 3 0 1 1 2 2 3 0 1 1 2 2 3 0 1 1 2 2 3 0 1 1 2 2 3 0 1 1 2 3 0	22 3 18 2427 0 8 18 962 2 18 1,229 0 17 446,013 29,446,013 29,428	\$ \$27, 228 92,000 1,944 152,820 57,108 21,624 17,008 25,108 4,764 1,461,760 1,461,760 552,972 2,640 1,880 24,524 24,673 28,640 28,673 38,440 28,673 38,440	\$3.416 2,736 8,408 718,028 250,772 31,156 1,014,836	\$27,228 64,136 15,944 15,920 56,472 56,472 17,088 25,108 25,108 4,492 4,492 4,492 4,492 26,052 2,640 11,880 24,320	\$24,444 \$1.04 37,14 35,14	\$29,444 \$1,044 \$76 \$5,144 35,144
Charom-House. Port of Toronto. January 23, 1852.					W. F. MENDELL, Collector.	LL, Collector.

Custom-house, Port or Toronto, January 23,1852.

No. 28.—General statement showing imports into the port of St. John for the year ending January 5, 1852, distinguishing the countries from whence and the route by which imported.

	2000 II.			
Remarks.	6,391 bushels exported to United States, and 3.760 bushels	in Warehouse.	,	300 Exported to U. States.
Total value imported by sea via St. Law-rence.	\$708			300
all Total value Total value for- imported imported imported un- inland vià by sea vià U. States. St. Law-	\$25, 432 28, 192 28, 192 236, 584 15, 692 15, 692 17, 096 12, 47, 096 12, 468 1, 468 1	15, 194 4, 444 764 532	300	2,252
From all other for- eign countries.				300
From British N. A. colonies.				008\$
From United States.	\$95, 432 28, 192 28, 193 38, 584 15, 695 47, 096 12, 876 1, 600 1, 600 1, 600	15, 124 4, 444 764 532	300	2, 252
From Great Bri- tain.	408		•	0 0 0 0
Total value.	\$25, 433 28, 193 (6, 176 2, 193 15, 793 47, 096 12, 876 1, 468 1, 468 1, 468 1, 468 1, 468 1, 468 1, 468	15, 124 4, 444 764 532	300	2, 552
Total quantities.	2, 630 2 3 6, 332 3 15 4, 684 0 14 274, 331 274, 179 380, 688 12, 239, 2, 391 3, 912 14, 157	7,605	0 0 0	eent.
Articles.	Specifics. Coffee, green	Thirty per cent. Fruit, all kinds	Twenty per cent. All articles at twenty per cent	Tweive-and a-half per cent. Fish of all kinds

	8o	60					
	warehouse	S148.					Collector.
	Value in \$248.	Value in \$148.			y		R, Aeling.
						1,008	J. W. TAYLOR, Acting Collector.
26.876 69.736 13,608 11.868 6,564 2,564	21, 996	181, 472 8, 044 87, 176 15, 924 221, 760 212, 316		348 3.3 052 3.3 052 6.4 208 6.4 208 6.5 20 6.5 20 6.5 20 7, 684 2.5 66 2.5 66 2.5 66 2.5 66 2.5 66 2.5 66 3.5 66 3.6 66 3	280 30, 092 14, 256 245, 752 15,004	1,947,448	J.
\$224 11,736 148	76	2,376 6,960 6,778 3,288			1,892	36, 956	
						300	
25, 308 57, 572 13, 608 11, 168 6, 564 2, 564	18, 204 30, 296	166,504 4,864 30,984 15,904 194,936 183,764		348 1,348 3,052 1,348 6,200 6,200 6,200 7,861 7,861 21,256	24, 956 14, 256 245, 752 14, 288	1,774,592	
1,344	3,716	12, 688 3, 172 49, 228 20, 036 26, 340			240	136, 604	
25, 876 69, 736 13, 608 11, 868 6, 564 223, 140	21, 996 30, 296	181, 472 8, 044 87, 176 15, 924 221, 760 212, 396		3, 348 1, 348 3, 052 3, 812 6, 208 64, 208 64, 208 7, 684 21, 256	280 30,092 14,256 245,752 15,004	1,948,460	ş
2,052 0 20				532 10 0 0 193,631 31,595 499 657 121,654	176,603		
Fur Leather, tanned Cil, except palm or cocoanut. Paper. Rice. Rice. Manufactured candles		chinery Jinen. Bilk Wood	Two-and-a-half per cent.	Bristles Bristles Coal Dye stuffs Elax, hemp and tow Hides Prich and tar Resin and rosin Tallow Other articles Free.	Animals. Books. Cotton-wool. Coin and bullion.	Total	

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distinguishing	
t showing imports into the port of Kingston for the year ending 5th January, 1852,	
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Remarks.	Large amounts of iron, &c., exported to U. States.
Total value imported by sea via St. Lawrence.	\$10,712 132 448 1,036 284 90,024 3,916
Total quan- Total value. From Great From Uni- From Brit- From all oth- Total value Total value tities. Britain. ted States. ish N. A. er foreign imported imported by colonies. countries. Island via U. sea via St. contries.	#2, 112
From all other foreign countries.	\$2,112 \$8,596 448 \$8,596 3,580 8,596
From British N. A.	7dlue \$2,112 448 764 248 3,580
From Uni- ted States.	Falue. \$6,460 2,824 3,760 1,412 2,173 265,020 85,448 85,448 316,392 1172,680
From Great Britain.	#132 1,036 284 89,256 89,256 3,812 3,812
Total value.	\$19,172 3,376 4,800 1,700 2,170 355,848 85,548 4,552 51,703 320,308 176,492
Total quantities.	allons 7, 123½ 4, 800 allons 7, 123½ 4, 800 2, 179⅓ 2, 179 2, 179⅓ 2, 179 355, 848 865, 548 4, 552 1, 702 1, 7
Articles.	Sugar, Musovadocwt. 4, 065 3 27 Spicas. Brandy

No. 30.—Abstract of merchandise received from the frontier districts adjoining Canada, and re-warehoused in the district of New York, during the year 1851.

Articles.	Packages.	Value.	,
Ashes Beef Beef Barley Butter Cotton and worsted. Fire-engine Fars. Flour Hams. Leather Moccasins Oatmeal Peas. Skins, dressed undressed Wax Wine. Wheat.	3 cases. In 5 cases and 1 bundle. 13 cases, 3 puncheons, 3 casks 250, 352 barrels. 16 casks. 8 bales. 7 cases. 200 barrels. 2, 439 barrels, 164½ barrels, 5,641 bushels. 1 case. 1 case.	\$62, 562 1, 025 354 8, 791 1, 105 1, 230 6, 347 846, 814 630 519 757 666 5, 651 316 182 1, 300 7, 631 481, 213	000000000000000000000000000000000000000

District of New York, Collector's Office, March 22, 1852.

No. 31.—Abstract of merchandise received from the frontier districts adjoining Canada, and re-warehoused in the district of Boston and Charlestown, during the year 1851.

Articles.	Packages.	Value.
Flour Ashes. Butter Paper, writing Hams. Peas Wheat. Curiosities, fossil remains,	151 barrels	\$96,256 0 2,521 0 7,466 0 465 0 890 0 1,082 0 8,628 0 2,133 0

COLLECTOR'S OFFICE,
District of Boston and Charlestown, March 15, 1852.

S. Doc. 112.

No. 32.—DISTRICT OF NEW YORK.

Abstract of quantity and value of merchandise transported in bond to the frontier districts, to be exported to Canada, during the year 1851.

Case and 2 casks 1 case and 2 casks 15 cases 15	alue.
Case and 2 casks),306 O
Brandy 45 hogsheads, 10 baskets, and 75 casks. Burr-stones 2,829 pieces Buttons 1 case. Cordials 50 boxes. Coffee 200 bags Cloves 11 bags. Corks 13 bags and 20 bales. Corks 3 cases. Coty goods 259 cases, 62 bales, and 1 package. 60 Drugs 2 cases, 50 crates, and 2 casks. 60 Earthenware 2 cases, 50 crates, and 2 casks. 60 Earthenware 2 cases, 50 crates, and 2 casks. 60 Fore-crackers 50 cases and 100 boxes. 60 Fire-crackers 50 cases and 2 backages. 60 Fish 60 60	352 0
Burtons 2,829 pieces 3 1 2 2 2 2 2 2 2 2 2	1,979 0
Duttons	, 829:00
Camphor. 9 casks Cordials 50 boxes Cassia 1,130 mats, 248 cases, and 5 packeges Coffee 200 bags Cloves 11 bags Corks 3 bags and 20 bales Cut glass 3 cases Dry goods 259 cases, 62 bales, and 1 package 6 Drugs 18 cases, 3 bales, 1 ceroon, and 4 casks 5 Earthenwere 2 cases, 50 crates, and 2 casks 5 Engravings 1 case and 1 package 6 Furs 14 cases and 2 boxes 6 Fire-crackers 50 cases and 25 boxes 6 Fish 3 cases and 25 boxes 6 Flowers, artificial 3 cases and 25 boxes 6 Gins 3 hogsheads 1 Glass bottles 3,000 bottles 1 Hardware 55 cases and 15 casks 1 Heap, manufactures of 6 cases 1 Hatas, wool 6 cases 1 Hatas, wool 7474 hides 1 Hatas, manufactures of 16	3, 359 00
Cordials	320 00
Cassia 1, 130 mats, 248 cases, and 5 packeges. Coffee 200 bags Cloves 11 bags. Corks 13 bags and 20 bales. Corks 259 cases, 62 bales, and 1 package. 66 Drugs 18 cases, 3 bales, 1 ceroon, and 4 casks. 68 Earthenware 2 cases, 50 crates, and 2 casks. 61 Engravings. 1 case and 1 package. 67 Furs. 14 cases and 2 boxes. 67 Fire-crackers 50 cases and 20 boxes. 68 Fish. 35 cases and 25 boxes. 68 Flowers, artificial. 3 cases and 2 packages. 69 Ginger 6 bags. 63 Gins. 3 hogsheads. 17 Glass bottles 3,000 bottles. 18 Hadware 50 cases and 151 casks. 19 Hides. 7,474 hides. 16 Hides. 7,474 hides. 16 Hon, bar. 16 cases, 6 casks, 50 packages, and 30 kegs. Jewelry. 5 cases. Leather. 30 cases. 5	1,050 00 143 00
Coffee	2,644 00
Cloves	2, 344 00
Corks 13 bags and 20 bales Cut glass 3 cases Dry goods 259 cases, 62 bales, and 1 package 66 Drugs 18 cases, 3 bales, 1 ceroon, and 4 casks 2 Earthenware 2 cases, 50 crates, and 2 casks 1 Engravings 1 case and 1 package 1 Furs 14 cases and 2 boxes 5 Fire-crackers 50 cases and 100 boxes 5 Fish 35 cases and 25 boxes 3 Flowers, artificial 3 cases and 2 packages 6 6 bags 6 6 Gin 3 hogsheads 1 Glass bottles 3,000 bottles 1 Hardware 59 cases and 151 casks 16 Hemp, manufactures of 2 coils 1 Hats, wool 6 cases 1 Iron, bar 16 cases 1 Iron, bar 16 cases 1 Iron, bar 16 cases 1 Icather, manufactures of 10 cases 1 Leather 10 cases <	177 00
Cut glass. 3 cases 6 bles, and 1 package. 6 formula of the package.	997 00
Dry goods	47 00
Earthenware	6,942 O
Case and 1 package 1 case and 2 boxes 1 case and 400 demijohns 1 case and 151 casks 1 case and 2 cases 1 case and 2 case and 30 kegs 1 c	3,821 00
14 cases and 2 boxes 50 cases and 100 boxes 50 cases and 100 boxes 50 cases and 100 boxes 50 cases and 25 boxes 50 cases 50 cases and 151 cases 50 c	,837 00
Fire-crackers 50 cases and 100 boxes 55 cases and 25 boxes 35 cases and 25 boxes 65 bags 65 bags 75 cases and 25 boxes 75 cases 36 bags 75 cases and 400 demijohns 75 cases and 400 demijohns 75 cases and 151 casks 75 cases and 151 casks 75 cases and 151 casks 75 cases 35 c	74 00
Stases and 25 boxes	5,061 00
Scales and 2 packages Scales and 2 packages Scales and 2 packages Scales and 3 hogsheads Scales and 400 demijohns Sca	116 00 828 00
Ginger	, 667 00
3 hogsheads 17 cases and 400 demijohns 17 cases and 400 demijohns 18 cases and 400 demijohns 18 cases and 400 demijohns 19 cases and 151 casks 19 cases 19 case	10 00
Glass bottles	95 00
Glass bottles	834 06
Hardware	16 Ő
Hemp, manufactures of. 2 coils Hides 1	, 516 00
Hats, wool.	84 00
Solution	6,029 00
Texas Texa	607 00
Sheet	309 00 320 00
Section Sect	, 265 ((
Leather 10 cases 12 Leather, manufactures of 43 cases and 3 bales 12 Looking-glass plates 2 cases 12 Musical instruments 9 cases 245 hogsheads Metal, manufactures of 37 cases and 1 cask 6 Nutmegs 6 kegs and 8 barrels 1 Oil cloth 3 cases 1 Oil palm 39 casks and 50 baskets 1 palm 39 casks and 1 case 2 paintings 2 cases 1 Preserved fruit 13,660 boxes, 1,571 barrels, and 937 packages 27 77 cases and 10 barrels 1 Plants 1 box, (free) 2 Paper hangings 2 cases 1 manufactures of 31 cases 1 Pimento 182 bags 1 Perper 90 bags 1 Paper hangings 2 cases 2 31 cases 2 3 42 cases 3 3 50 casks 3 3 50 casks 3 3 50 casks <t< td=""><td>255 00</td></t<>	255 00
Leather, manufactures of. 43 cases and 3 bales 15 Looking-glass plates 2 cases 9 cases Musical instruments 9 cases 245 hogsheads 5 Molasses 37 cases and 1 cask 6 kegs and 8 barrels 6 Nutmegs 6 kegs and 8 barrels 1 Dil cloth 3 cases 1 Dil 29 casks and 50 baskets 1 pain 39 casks and 1 case 1 paintings 2 cases 1 Preserved fruit 13,660 boxes, 1,571 barrels, and 937 packages 2 Plants 1 box, (free) 2 Paper hangings 2 cases 1 manufactures of 31 cases 1 Pimento 182 bags 1 Pepper 90 bags 90 bags Paints 50 casks 50 casks	,722 00
Musical instruments. 9 cases. Molasses. 245 hogsheads. Metal, manufactures of. 37 cases and 1 cask. Nutmegs. 6 kegs and 8 barrels. Oil cloth. 3 cases. Dil. 29 casks and 50 baskets. palm. 39 casks and 1 case. paintings. 2 cases. Preserved fruit. 13,660 boxes, 1,571 barrels, and 937 packages. fish. 77 cases and 10 barrels. Plants. 1 box, (free). Paper hangings 2 cases. manufactures of. 31 cases. Pimento. 182 bags. Perfumery. 1 case. Paper apper. 90 bags. Papints. 50 casks.	, 158 00
Molasses 245 hogsheads Metal, manufactures of. 37 cases and 1 cask. Nutmegs 6 kegs and 8 barrels. Dil cloth. 3 cases. Dil 29 casks and 50 baskets. paintings 2 cases. Preserved fruit. 13,660 boxes, 1,571 barrels, and 937 packages. Plants. 1 box, (free). Paper hangings 2 cases manufactures of. 31 cases Pimento 182 bags Perfumery 1 case. Pepper 90 bags. Paints 50 casks.	238 00
Metal, manufactures of. 37 cases and 1 cask. Nutmegs. 6 kegs and 8 barrels. Dil cloth. 3 cases. Dil. 29 casks and 50 baskets. palm 39 casks and 1 case. paintings. 2 cases. Preserved fruit. 13,660 boxes, 1,571 barrels, and 937 packages. Plants. 1 box, (free). Paper hangings 2 cases. manufactures of. 31 cases Pimento 182 bags Perper. 90 bags. Paints 50 casks.	760 00
Nutmegs 6 kegs and 8 barrels Oil cloth 3 cases Dil 29 casks and 50 baskets palm 39 casks and 1 case paintings 2 cases Preserved fruit 13,660 boxes, 1,571 barrels, and 937 packages 77 cases and 10 barrels 1 box, (free) Paper hangings 2 cases manufactures of 31 cases Pimento 182 bags Perfumery 1 case Pepper 90 bags Paints 50 casks	, 826 00
3 3 3 3 3 3 3 3 3 3	6,614 06
29 casks and 50 baskets. 1 29 casks and 50 baskets. 1 39 casks and 1 case. 2 2 2 2 2 2 2 2 2	,487 00 435 00
1	,915 00
2 2 2 2 2 2 2 2 2 2	,979 00
13,660 boxes, 1,571 barrels, and 937 packages 27 cases and 10 barrels 1 box, (free) 2 cases 31 cases 1 case 2 cases 1 case 2 cases 3 cas	32 00
77 cases and 10 barrels	, 776 00
Paper hangings 2 casés manufactures of 31 cases Pimento 182 bags Perfumery 1 case Pepper 90 bags Paints 50 casks	, 329 00
manufactures of	33 00
Pimento 182 bags Perfumery 1 case Pepper 90 bags Paints 50 casks	241 00
Perfumery	3, 104 00
Pepper	1,626 (±0 168 00
Paints 50 casks	336 00
00.0001	193 00
Railroad from	3, 534 00
Knuoaro 5 cases	154 00
Rum 22 nogsheads and 18 casks	,757 00
Sliks 33 cases and 3 packages	6, 206 00
Spices cases and 90 bags	717 00
Organs	,007 00
Sugars	,049 00 390 00

S. Doc. 112.

ABSTRACT—Continued.

Articles.	Packages.	Value.
Straw hats	73 cases, 1,222 hides, and 4 casks	\$647,0 20,059 0 8,271 0 646 0 8,197 0 5,907 0 118 0 15,820 0 1,439 0

No. 33.-PORT OF BOSTON.

Abstract of quantity and value of merchandise transported in bond to the frontier districts, to be exported to Canada, during the year 1851.

Articles.	Packages.	Valu .
Books	52 cases, 1 bale, 3 chests	\$9,075 518,55; 419 555 1,224 87; 16,70; 3,16; 28,04 2,24; 4,08; 17; 33; 82; 10; 66; 27; 49; 19; 11; 55;
Seal-ekine	1 do	56 24 28 20
Paper	4 do	590, 77

No. 34.—Abstract of quantity and value of Canadian flour exports the port of Boston to all ports during the year 1851.	ed from
16,688 barrels Canada flour; value	57,926
-	
No. 35.—Abstract of the quantity and value of Canadian flour export the port of Boston to the British American colonies during the year	ed from r 1851.
4,590 barrels Canada flour; value	14,961
• •	
No. 36.—Flour and wheat, the produce of Canada, exported from of New York to the British colonies, &c., in 1851; and also the valuation of the Canada produce exported to the colonies and to Great Britain	ue of all
Ashes exported to other ports, 878 barrels Butter exported to Great Britain, 251 kegs Furs exported to Great Britain, 12 cases. Furs exported to other places, 2 cases, 3 casks, 3 puncheons Wax exported to other ports, 20 bales Beef exported to Great Britain, 100 tierces Flour exported to Great Britain, 88,553 barrels Flour exported to British provinces, 86,689 barrels Flour exported to other ports, 100 barrels	40,542 19,086 1,692 3,690 2,975 1,300 1,025 602,920 299,414 350 344,568 4,666
-	
No. 37.—Statement of the value and quantity of Canadian flour an received in bond at the port of New York, and the value and quantity of canadian flour and	d grain quantity
Flour exported, 175,342 barrels Wheat warehoused, 712,403 bushels	346,814 302,684 481,213 349,234
Flour in store, 63,569 barrels	210,600 180,960

No. 39.—A comparative statement of the gross and net revenue received from customs duties in Canada, for the years 1848, 1849, and 1850.

	1848.	1849.	1850.
Gross receipts of duties Charges for collection	\$1,336,116 130,388	\$1,778,188 127,240	\$2,463,776 * 138,248
	1,205,724	1,650,948	2,324,528

^{*} In this item is included the sum of \$9,832 for return duties.

No. 40.—Statement showing the relative amount of business done in American and Canadian vessels at the undermentioned American ports, at which separate statements have been obtained, in 1850.

In American.	In Canadian.	In bond, and character of ves- sel not stated.	Totals.
			-
\$597,399	\$1,490,223		\$2,087,622
26,578	69,972	\$3,639	100,189
93,068	222,845	130,987	446,900
717,045	1,783,040	134,626	2,634,711
	93,068	26,578 69,972 93,068 222,845	\$597,399 \$1,490,223

No. 41.—Statistical view of the commerce of Canada, exhibiting the value of exports and imports from Great Britain, her colonies, and foreign countries, together with the tonnage of vessels arriving and departing, during the year 1850.

						ť
	COMM	COMMERCE.		NAVIG	NAVIGATION.*	
				Vessels 1	Vessels from sea.	
	Value of ex- ports.	Value of imports.	Value of im- Tonnage to and from British ports. Tonnage to and from foreign ports.	om British ports.	Tonnage to and fi	rom foreign ports.
			Entered inward.	Entered inward. Cleared outward. Entered inward. Cleared outward.	Entered inward.	Cleared outward.
Great Britain North American colonies British West Indies. United States of America. Other foreign countries.	\$6 085,116 \$08,776 8,376 5,031,156 108,280	\$9,631,920 385,616 4,448 6,594,860 365,212	360,280	522,093	. 161,836	21,870
	11,961,712	16,982,068	366,280	522,503	161,836	21,870

*This table of tonnage embraces merely the vessels arriving and departing from the ports of Quebec and Montreal; the inland ports are not included.

PART VI.

NEW BRUNSWICK.

This province is situate between Canada and Nova Scotia, and abuts on the northeastern boundary of the United States, upon the line lately established under the Ashburton treaty. To the southward it is bounded by the Bay of Fundy, and is separated from Nova Scotia by a boundary line across the narrow isthmus which connects Nova Scotia with the continent of America. On the northeast New Brunswick is bounded by the Gulf of St. Lawrence and the Bay of Chaleur; it is divided from Canada by a line which follows for some distance the forty-ninth parallel of north latitude.

The area of New Brunswick is estimated at nearly twenty-two millions of acres; its population, by a census taken during the year 1851, is a little over one hundred and ninety-three thousand souls.

The great agricultural capabilities of New Brunswick, and its fitness for settlement and cultivation, are only now beginning to be known. The commissioners appointed by the imperial government to survey the line for a proposed railway from Halifax to Quebec, thus speak of

New Brunswick in their report:

"Of the climate, soil, and capabilities of New Brunswick, it is impossible to speak too highly. There is not a country in the world so beautifully wooded and watered. An inspection of the map will show that there is scarcely a section of it without its streams, from the running brook up to the navigable river. Two-thirds of its boundary are washed by the sea; the remainder is embraced by the large rivers, the St. John and the Restigouche. The beauty and richness of scenery of this latter river, and its branches, are rarely surpassed by anything on this continent.

"The lakes of New Brunswick are numerous and most beautiful; its surface is undulating—hill and dale—varying up to mountain and valley. It is everywhere, except a few peaks of the highest mountains,

covered with a dense forest of the finest growth.

"The country can everywhere be penetrated by its streams. In some parts of the interior, by a portage of three or four miles only, a canoe can float away either to the Bay of Chaleur or the Gulf of St. Lawrence, or down to St. John and the Bay of Fundy. Its agricultural capabilities and climate are described by Bouchette, Martin, and other authors. The country is by them—and most deservedly so—highly praised.

"For any great plan of emigration, or colonization, there is not another British colony which presents such a favorable field for the

trial as New Brunswick.

"On the surface is an abundant stock of the finest timber, which in the markets of England realizes large sums annually, and affords an unlimited supply of fuel to the settler. If the forests should ever become exhausted, there are the coal-fields underneath.

"The rivers, lakes, and seacoast abound with fish. Along the Bay of Chaleur it is so abundant that the land smells of it. It is used as a manure; and, while the olfactory senses of the traveller are offended by it on the land, he sees out at sea immense shoals darkening the surface of the water."

This description of New Brunswick is given in an official report presented by two very intelligent officers of the royal engineers, who were sent out from England to survey the proposed railway route, and examine the country through which it would pass. They returned to England at the close of their labors, the results of which were laid before Parliament.

The principal river of New Brunswick is the St. John, which is four hundred and fifty miles in length from its mouth, at the harbor of St. John, to its sources, at the Metjarmette portage. It is navigable for vessels of one hundred tons, and steamers of a large class, for ninety miles from the sea, to Fredericton, the seat of government. Above Fredericton small steamers ply to Woodstock, sixty miles farther up the river; and occasionally they make trips to the entrance of the Tobique, a farther distance of fifty miles. The Grand Falls of the St. John are two hundred and twenty-five miles from the sea. Above these falls the river has been navigated by a steamer forty miles, to the mouth of the river Madawaska, and from that point the river is navigable for boats and canoes almost to its sources. The Madawaska river is also navigable for small steamers thirty miles, to Lake Temiscouata, a sheet of water twenty-seven miles long, from two to six miles wide, and of great depth throughout. From the upper part of this lake to the river St. Lawrence, at Trois Pistoles, is about eighteen miles only, and propositions have been made for establishing a communication between the St. Lawrence and the St. John, either by railway or canal, across this

In connexion with the St. John is the Grand lake, the entrance to which is about fifty miles from the sea. This lake is thirty miles in length and from three to nine miles in width. Around the Grand lake are several workable seams of bituminous coal, from which coals are raised for home consumption and for exportation.

The harbor of St. John is spacious, and has sufficient depth of water for vessels of the largest class. The rise and fall of tide is from twenty-one to twenty-five feet, and there is a tide-fall at the head of the harbor which effectually prevents its being ever frozen over or in the least impeded by ice during winter. Few harbors on the north-eastern coast of North America, if any, are so perfectly free from ice, as St. John harbor. It is in latitude 45° 16' north, longitude 66° 4 west.

The Peticodiac is a large river flowing into the Bay of Fundy, near its northeastern extremity. It is navigable for vessels of any size for twenty-five miles from its mouth, and for schooners of sixty or eighty tons for twelve miles farther. On the lower part of this river a very valuable mineral has recently been discovered, and the seam is now worked to considerable extent. By some this mineral is designated

"jet coal," and by others it is considered pure asphaltum. It is black and brilliant, highly inflammable, and yields a large quantity of gas of great illuminating power. The seam is worked at four miles from the bank of Peticodiac river, where it is navigable for sea-going vessels of large class.

On the gulf-coast of New Brunswick there are many fine ship harbors, each at the mouth of a considerable river; and from these

harbors much fine timber is shipped annually to England.

The most southern of these harbors is *Shediac*, which is capacious, and with sufficient depth of water for vessels drawing eighteen feet. Captain Bayfield, R. N., marine surveyor in the Gulf of St. Lawrence, says that Shediac harbor is the easiest of access and egress on this part of the coast, and the only harbor of New Brunswick, eastward of Miramichi, which a vessel in distress could safely run for in heavy northerly gales as a harbor of refuge. Two rivers fall into Shediac harbor, which is fast becoming a place of importance. Should the proposed railway from St. John to Halifax be constructed, it will touch the gulf at Shediac, which will thus command a large trade as one of the great turning-points of the railway.

Cocagne harbor is ten miles by the coast, northwardly, from Shediac harbor. Within this harbor, which is at the mouth of a river of the same name, there is abundance of space for shipping, and good anchorage in five fathoms water. The tide flows seven miles up the Cocagne river. There is much good timber on its banks, and the port

has every facility for ship-building.

Buctouche harbor is at the mouth of the Great and Little Buctouche rivers, nine miles by the coast northwardly of Cocagne. Formerly there was only twelve feet of water on the bar at the entrance to this harbor, but, owing to some unexplained cause, the water has gradually deepened of late years, and now vessels drawing thirteen feet have gone over the bar. There is much valuable timber on the banks of this tiver, and vessels up to fifteen hundred tons burden have been built at Buctouche.

Twenty miles north of Buctouche is *Richibucto harbor*, which is extensive, safe, and commodious. The river is navigable for vessels of large size upwards of fifteen miles from the gulf, the channel for that distance being from four to six fathoms in depth. The tide flows up the river twenty-five miles. The shipments of timber and deals from this port annually are becoming very considerable.

The extensive harbor of *Miramishi* is formed by the estuary of the beautiful river of that name, which is two hundred and twenty miles in length. At its entrance into the gulf this river is nine miles in width.

There is a bar at the entrance to the Miramichi; but the river is of such great size, and pours forth such a volume of water, that the bar offers no impediments to navigation, there being sufficient depth of water on it at all times for ships of six hundred and seven hundred tons, or even more.

The tide flows nearly forty miles up the Miramichi from the gulf. The river is navigable for vessels of the largest class full thirty miles of that distance, there being from five to eight fathoms water in the channel; but schooners and small craft can proceed nearly to the head

of the tide. Owing to the size and depth of the Miramichi, ships can load along its banks for miles; its trade and commerce are already

extensive, and will undoubtedly annually increase.

At the northeastern extremity of New Brunswick, just within the entrance of the Bay of Chaleur, is the spacious harbor of Great Shippigan, which comprises three large and commodious harbors. Besides its facilities for carrying on ship-building and the timber trade, Shippigan harbor offers great advantages for prosecuting the fisheries on the largest scale. The general dryness of the air on this coast, and the absence of fog within the Gulf of St. Lawrence, are peculiarly favorable to the drying and curing of fish, in the best manner, for distant voyages. Owing to the erection of steam saw-mills at Great Shippigan, and the extensive fishery establishments set up thereaby Jersey merchants, there is considerable foreign trade. The dry fish are chiefly shipped in bulk to Messina and Naples, for which markets they are well suited.

Little Shippigan harbor lies between the islands of Mescou and Shippigan. It is an exceedingly good harbor, being well sheltered, with safe anchorage in deep water. The main entrance is from the Bay of Chaleur. It is half a mile in width, with eight fathoms at low water, which depth is maintained well into the harbor. This is not a place of any trade, but it is greatly resorted to by American fishing vessels which frequent the Gulf and the Bay of Chaleur, as it affords them perfect shelter in bad weather. There are great conveniences for fishing establishments in this fine harbor; and it would afford great facilities and advantages to our fishermen if they were permitted to

land and cure their fish upon its shores.

Bathurst harbor is within the Bay of Chaleur, which in itself may be considered one immense haven ninety miles in length, and varying in breadth from fifteen to thirty miles. It is remarkable that within the whole length and breadth of the Bay of Chaleur there is neither rock,

reef, nor shoal, and no impediment whatever to navigation.

The entrance to Bathurst harbor is narrow; but within, it is a beautiful basin, three miles and a half in length and two miles in breadth, well sheltered from every wind. In the principal channel there is about fourteen feet at low water. Vessels drawing more than fourteen feet usually take in part of their cargoes outside the bar, where there is a safe roadstead, with deep water, and good holding-ground.

No less than four rivers fall into Bathurst harbor, each of which furnishes much good timber. Ship-building is prosecuted in this harbor to some extent; and there is a considerable export of timber and deals

to England and Ireland.

The entrance to the Restigouche, at the head of the Bay of Chaleur, is three miles in width, with nine fathoms water—a noble entrance to a noble river. The main branch of the Restigouche is over two hundred miles in length. Its Indian name signifies "the river which divides like the hand," in allusion to its separation above the tide into five principal streams, or branches. These drain at least four thousand square miles of fertile country, abounding in timber and other valuable natural resources, the whole of which must find their way to the sea through the port of Dalhousie, at the entrance to the Restigouche. A

crescent-shaped cove in front of the town of *Dalhousie* is well sheltered, and has good holding-ground for ships in nine fathoms water. There are capital wharves and excellent and safe timber ponds at Dalhousie, affording every convenience for loading ships of the largest class.

From Dalhousie to Campbellton the distance by the river is about eighteen miles. The whole of this distance may be considered one harbor, there being from four to eight fathoms throughout in the main channel, which is of good breadth. At Campbellton the river is about three-quarters of a mile in width. Above this place the tide flows six miles, but large vessels do not go farther up than Campbellton.

The country watered by the Restigouche and its branches is yet almost wholly in a wilderness state, and nearly destitute of population; but its abundant and varied resources, and the size and character of this magnificent river, must hereafter render the northeastern portion

of New Brunswick of great consequence.

TRADE AND COMMERCE OF NEW BRUNSWICK.

The present value of the trade and commerce of this large and highly-favored colony, as yet but very thinly peopled, will be best estimated by the following tables.

The value of the imports and exports of the whole province, in 1849

and 1850, is thus stated:

a	184	19.	1850.		
Countries.	Imports.	Exports.	Imports.	Exports.	
Great Britain British colonies—	\$1,507,340	\$2,319,070	\$1,988,195	\$2,447,755	
West Indies British North	5,560	57, 360	11,565	90,350	
America	517,300	270,475	674,685	297,860	
Other colonies.		6,260	25,135	·# 8,105	
United States	1,322,810	257,910	1,310,740	387,000	
Foreign States	.114,825	96,235	67,335	59,020	
Total	3,467,835	3,007,310	4,077,655	3,290,090	

The following is an account of the vessels, and their tonnage, which entered inward and cleared outward at all the ports of New Brunswick, in 1849 and 1850:

	1849.				
Countries.	Inv	vard.	Outward.		
	Number.	Tons.	Number.	Tons.	
Great Britain British Colonies United States Foreign States	325 1,213 1,304 51	140,024 81,050 182,007 13,106	769 1,172 928 25	300,806 68,097 84,742 3,769	
Total	2,893	416,187	2,891	457,414	
	1850.				
Countries.	Inv	vard.	Outward.		
	Number.	Tons.	Number.	Tons.	
Great Britain British Colonies United States Foreign States	233 1,281 1,457 68	95,393 81,424 242,104 17,701	768 1,241 937 25	303,617 70,155 87,925 3,286	
Total	3,039	436,622	2,971	464,983	

The number of new ships built in New Brunswick during 1849 and 1850 is thus stated:

	Vessels.	Tons.
In 1849	114	36,534
In 1850	86	30,356

The number and tonnage of vessels owned and registered in New Brunswick in the same years are as follow:

	On December 31, 1849.		On December 31, 1850.	
	Vessels.	Tons.	Vessels.	Tons.
At St. John	505	93,192	535	99,490
At Miramichi	90	7,464	92	6,282
At St. Andrew's	180	16,819	180	16,224
Total	775	117,475	807	121,996

The following tables and statements are given with the view of showing the trade of the port of St. John, and of the various other seaports of New Brunswick, during the years 1850 and 1851:

No. 1.

Abstract of the trade of the port of St. John, showing the ships and tonnage employed, and the relative value of the imports, distinguishing foreign goods from goods of British produce and manufacture, during the year ending December 31, 1850.

There what a section	Vessels inward.		. Value of imports.		W-4-1
From what countries.	Number.	Tons.	British.	Foreign.	Total.
Great Britain and Ireland United States	133 694	58,251 145,095	\$1,546,395 196,405	\$126,450 877,350	\$1,672,845 1,073,755
British N. A. Colonies British West Indies Foreign West Indies	815 12 19	45,153 1,514 2,908	304,115 10,200	85,455 65,260	389,570 10,200 65,260
Foreign Europe		6,926 292	4,650 20,485		4,650 20,485
Totals	1,692	260,139	2,082,250	1,154,515	3,236,765

No. 2.

Abstract of the trade of the port of St. John, showing the ships and tonnage cleared outward, and the relative value of the exports, distinguishing foreign goods from goods of British produce and manufacture, during the year ending December 31, 1850.

To what countries.	Vessels outward.		Value of exports.		Total.
10 man consultes.	Number.	Tons.	British.	Foreign.	
					
Great Britain and Ireland	457	190.215	\$1,547,335	\$96,055	\$1,643,390
British N. A. Colonies	794	40,309	108,015	37,095	145,110
United States	405	45,214	187,355	106,200	293,555
British West Indies	37	5,141	54,245	355	54,600
Foreign West Indies	15	2,150	33,455		33,458
South America	8	466	7,190	195	7,385
Australia	1	402	3,405	840	4,245
British Possessions in Africa.	2	424	3,855		3,858
Totals	1,714	284,321	1,944,855	240,740	2,185,495

No. 3.

Abstract of the trade of the port of St. John, showing the ships and tonnage entered inward, and the relative value of the imports, distinguishing foreign goods from goods of British produce and manufacture, during the year ending December 31, 1851.

	Vessels inward.		s inward. Value of imports.		Total.	
From what countries.	Number.	Tons.	British.	Foreign.	Total.	
Great Britain and Ireland British N. A. Colonies British West Indies Foreign West Indies United States Foreign Europe	737 8 23	64,113 42,048 1,750 3,342 166,952 4,245	\$1,855,270 322,845 3,705 303,925	\$87,105 107,485 105,610 1,154,280 26,510	\$1,942,375 430,330 3,705 105,610 1,458,205 26,510	
Totals	1,527	282,450	2,485,745	1,480,990	3,966,735	

No. 4.

Abstract of the trade of the port of St. John, showing the ships and tonnage cleared outward, and the relative value of the exports, distinguishing foreign goods from goods of British produce and manufacture, during the year ending December 31, 1851.

The what sounding	Vessels outward.		Value of exports.		m . 1
To what countries.	Number.	Tons.	British.	Foreign.	Total.
Great Britain and Ireland	440	208,889	\$1,915,210	\$17,080	\$1,932,29
United States	359	64,344	148,270	164,425	312,89
British N. A. Colonies British West Indies	695 -25	42,041 3,472	171,665 21,350	44,720 265	216,38 21,61
Foreign West Indies		3,688	53,105	1,040	54,14
South America	3	1,772	23,330	3,735	27,06
Australia	2	615	4,325	1,410	5,73
Totals	1,545	324,821	2,337,455	232,675	2,570,13

From these returns, it is apparent that the imports of St. John decreased in the year 1851, while the exports increased considerably—thus:

1850. 1851.

Total imports......\$3,966,735 \$3,236,765 Decrease, \$729,970

Total exports....... 2,185,495 2,570,130 Increase, 384,635

The following is an account of the timber and lumber cut on American territory, and floated down the river St. John, which was exported to the United States under certificate of origin, in the years 1850 and 1851, with their estimated value:

Artácles.	18	50.	1851.	
Aracles.	Quantity.	Value.	Quantity.	Value.
Boards and scantling, M feet		\$27,670	2,784	\$35,775
Clapboards	2,599	40,070	3,857	95,950
Shinglesdo Palingsdo	4,169 40	10,490 355	6, 808	17,030 615
Hackmatack timbertons.	30	150	727	3,63 5
LathsM.	20	20	215	270
Pine timbertons.	1,324	8,965	565	3,955
Ship-kneespieces.	5 53	400		
Sparsdo	28	55	220	935
Total value		88,175		158,165

From the foregoing, it will be seen that the export to the United States of American timber and lumber, cut on the upper St. John, and shipped through the port of St. John, has very nearly doubled within the last year, and is understood to be annually increasing.

The following is an account of the principal articles of colonial produce, growth and manufacture, exported to the United States from the port of St. John, N. B., during the year ended 31st December, 1851,

with their value:

Articles.	Quantity.	Value.
Boards and scantling	2,997	\$37,285
Pickets and palings M pieces	331	1,655
Laths	1,009	1,270
Shinglesdo	383	960
Clapboards	150	3,750
Hackmatack timber and kneestons	466	2,695
Sparspieces	10	50
Staves	643	8,035
Fire-woodcords	173	865
Limehhds	238	290
Gypsumtons	1,652	2,120
Grindstonespieces	65	80
Ox-hornshhds. and crates.	32	330
Potatoes bushels	8,900	6,180
Coal tons	195	900
Black leadcwt	152	325
Potash barrels	32	320
Sheepskinscrates	123	5,275
Railway sleepers	379	2,500
Pig-iron tons	91	3,405
Oats bushels	4,800	2,400
Smoked herringsboxes	1,392	1,865
Mackerelbarrels	10	60
Salmon, preservedpackages	766	16,115
Salmon, freshNo	4,437	4,440
Shadbarrels	184	1,345
Alewives and herringsdo	6,892	21,565
Total value		125,080

The total value of the like description of articles exported from the port of St. John to the United States in 1850, was \$157,695; showing a decrease of that class of exportations to the extent of \$32,615 in the year 1851.

The following is a statement in detail of the various articles, the growth, produce, or manufacture of the United States, imported into the port of St. John during the year 1850, with the value of each description of articles:

Articles.		Quantity.	Value.
Apothecary ware	1,080	packages	\$15,761
Ashes	98,133	pounds	4,986
Ale and porter	3,148	gallons	628
Bricks	30,000		195
Books and stationery	1,761	packages	24,472
Bran	100	bags	50
Boats	-		
Bread	1,253	cwt	
Butter and cheese		cwt	
Barilla	66	tons	
Broom brush	53,954	pounds	3,856
Bark		do	
Soap and candles	10,060	do	1,592
Coffee and cocoa		do	
Coal		tons	
Indian corn		bushels	
Canvass		yards	1,063
Cork		bags	191
Cattle		head	755
Clocks	$ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $		42
Cement		barrels	481
Combs	16	packages	
Copper and yellow metal	261	cwt	5,656
Cordage		packages	3,742
Carriages	20		1,041
Confectionary	11	cwt	181
Dyewood	1,243	cwt	1,803
Earthenware		packages	
Furs			3,115
Fruits and vegetables		do	9,906
Dried fruits		cwt	9,358
Feathers.		cwt	90
Fireworks		box	15
Furniture		packages	3,190
Wheat flour		barrels	180,738
Rye flour	14,300	do	44,240
Fire-engine			2,037
Groceries		packages	1,713
Glass ware		do	4,885
Glue	2	cases	40
Grain, wheat	193,723		205,556
Haberdashery	1,576	packages	24,477

Imports into the port of St. John-Continued.

	<u> </u>		
Articles.		Quantity.	Value.
Hay	492	tons	\$4,857
Hair	_	bags	30
Hemp	1	bales	2,165
Hops		.do	942
Hides		.do	12,310
Iron, wrought and unwrought		tons	9,651
Iron castings		packages, 752 pieces, and	·
		453 cwt	7,934
Indigo	168	pounds	127
India rubber goods		packages	8,287
Jewelry	24	.do	2,125
Leather		do	13,236
Lumber		feet	155
Lignumvitæ	55	tons	1,218
Lard		pounds	931
Live stock		horse; 6 coops	
		poultry	191
Matches	28	cases	170
Meal	1	barrels	24,657
Meat, salted		cwt	86,616
Mahogany and rosewood		feet, 56 pieces,	
The state of the s		4 packages	688
Mats	50	packages	370
Musical instruments		do	1,212
Machinery (planing, &c.)	27	_	2,095
Molasses	77,629	gallons	8,295
Moulding-sand		tons	77
Manure	75	barrels	222
Marble	33	tons	808
Nuts		packages	2,508
Minerals		package	10
Naval stores.		barrels	4,376
Oil, fish		gallons	4,588
Oil, palm		cwt	685
Oars		pairs	21
Plaster	240	barrels	310
Oakum :		tons	1,861
Oysters	193	barrels	360
Prints		packages	100
Rice	209,048	pounds	8,042
Paint and putty		kegs & barrels	690
Sugar, refined	516	cwt	4,387
Sugar, muscovado		cwt	20,317
Spirits	22,376	gallons	19,442

Import into the port of St. John-Continued.

Articles.	Quantity.	Value.
Spices Sirup Stoves Seeds Shot Scythe and grain stones Starch Tallow and soap-grease Tea Tobacco Timber, locust Timber, pitch-pine and oak Treenails Turpentine Varnish Vinegar	116 packages	\$676 75 25 1,392 12 353 78 22,470 9,558 68,356 142 11,937 972 858 708
Wine	4,380do	2,922 62
Wooden-ware	2,779 do	

The following is a detailed statement of the principal articles imported from the United States at the port of St. John, in the year 1851, with their value:

Articles.	Quantity.	Value.
Apothecaries' ware		\$27,025
Ale and porter	3,506 gallons .	705
Ashes	1,001 cwt	5,490
Books and stationery		
Butter and cheese	88 cwt	
Bread	371 cwt	1,840
Barilla	66 tons	1,965
Broom-straw	159 cwt	1,430
Candles and soap	158 cwt	2,050
Coffee	1,007 cwt	13,720
Coals	1,816 tons	6,345
Cider and vinegar	123 barrels.	295
Cordage	219 package	2,640

S. Doc. 112.

Imports into the port of St. John-Continued.

Articles.	Quantity.	Value.
Carriages	22	\$1,200
Dye-wood		655
Earthen and glass ware		9,910
Fruit and vegetables		11,590
Furniture		6,775
Dried fruit		8,845
Wheat flour	68,878 barrels	297,820
Rye flour		6,890
Musical instruments	13	530
Corn-meal	5,549 barrels	16,780
Wheat	157,900 bushels	149,325
Corn and other grain	40,246 do	34,385
Groceries		8,315
Haberdashery		158,295
Hides	254 bales	26,435
Hops		2,060
Hemp.		8,190
Hardware		39,600
Wrought and cast-iron wares		11,045
India rubber goods		12,935
Leather manufactures and leather		45,600
Salted meats	9,875 cwt	81,935
Molasses	27,600 gallons	6,610
Marble and other stone		1,740
Cabinet-wood, veneers, &c	[4,010
Naval stores	1,840 barrels	3,500
Oysters	278do	485
Oil	12,832 gallons	5,610
Plaster	406 barrels	465
Palm oil	24 cwt	175
Rice	2,519 cwt	9,630
Seeds	212 bushels	2,905
Refined sugar	1,192 cwt	10,105
Brown sugar	2,515 cwt	16,010
Spirits	72,820 gallons	42,025
Tallow	4,182 cwt	36,020
Tea	5,259 chests, 84 lbs	
	each	113,315
Treenails	211 M	2,980
Tobacco.	3,777 cwt	82,460
Wood-wares		13,035
Lignumvitæ	21 tons	230
Wine	3,159 gallons	2,400
Copper	38 cwt	1,295
Hay	34 tons	335

Imports into the port of St. John.—Continued.

Articles.	Quantity.	Value.
Paints	15 cwt	\$480
Pitch-pine timber	4,228 tons	20,290
Live stock	1 bull	210
Machinery		1,375
Printing press	. 1	1,125
Printing press	. 2	1,590
Total value		1,422,930

From the two preceding tables it will be seen that the value of imports from the United States at the port of St. John in 1850 was \$1,120,582; and in 1851, was \$1,422,930; showing an increase in the latter year of \$302,348.

An examination of these tables will also show that the imports of coals and timber at St. John from the United States, both in 1850 and 1851, far exceeded the value of similar articles exported to the United

States in those years.

The quantity of coals of colonial produce exported to the United States from St. John in 1850 was only 65 tons, while in that year the quantity of coals imported from the United States at the same port was 2,321 tons. The coals exported were of the soft, bituminous description, while those imported were anthracite, the use of which in this colony for steamboats and foundries, and also for domestic use, to which they have not yet been applied, would be largely increased if they were imported free of duty. In 1851 the coals exported amounted to 195 tons, and the import from the United States to 1,816 tons.

It will also be observed that New Brunswick imports from the United States large quantities of pitch-pine and other timber, which are in much request for ship building and other purposes. In 1851 no less than 4,228 tons of pitch-pine timber, valued at \$20,290, was imported at St. John from the United States. The demand for pitch-pine, oak, locust, hickory, and black walnut, none of which are found in New Brunswick, would be greatly increased if they were free of duty; and various other descriptions of wood for cabinet work would also be sought after under the like circumstances.

The coals and timber of New Brunswick and the United States, differing, as they do, so widely in character and uses, may be fairly exchanged with each other, each having its own peculiar advantages for

certain purposes.

The number of vessels belonging to the United States which entered at the port of St. John during the year 1851 was 92, of the burden of 37,308 tons. The largest of these vessels took cargoes of timber and deals from St. John direct to ports in the United Kingdom, earning fair freight. The number so employed in 1851 was 41, of the burden of

29,831 tons. The remaining 51 vessels, of the burden of 7,477 tons, were employed in voyages between St. John and the United States.

The number and tonnage of new ships built and fitted out at the port of St. John in the year 1850 and 1851 are as follows:

	Number.	Tons.
1850	5 8	20,377
1851	74	20,377 38,960

Of the new ships built at St. John in 1851, fourteen, measuring 10,332 tons, were for owners in the United Kingdom, and twenty-one others, of the burden of 11,398 tons, were sold and transferred to other ports during the year. This amounts to 21,730 tons of shipping exported from St. John during the past year, estimated at \$800,000, which

does not appear in the export returns.

A great improvement in the model and finish of New Brunswick built ships has taken place within a few years, and their value has thereby been greatly augmented in the English market. Larch timber, better known by its local names of hackmatac or tamarack, is now chiefly used in the construction of the New Brunswick ships; and this wood has been so greatly approved, that in 1850 the committee of underwriters at Lloyd's decided to admit hackmatac vessels to the red star class for six years. This year the same committee has further resolved to admit these vessels to the seven-years class. The resolution runs thus:

"Hackmatac, tamarack, juniper, and larch, of good quality, free from sap, and not grain-cut, will be allowed in the construction of ships in the seven-years class, for the following parts: Floors; first, second, and third foot-hooks and top timbers; stem and stern post; transoms,

knight-heads, hawse-timbers, apron, and dead-wood."

The number of vessels belonging to the port of St. John on the 31st day of December, 1850, was 535, of the burden of 99,490 tons. On the 31st day of December, 1851, the number was 518, of the burden of 94,810 tons; the decrease is attributed to a number of old vessels being sold during 1851.

The population of St. John being under 30,000 souls, the proportion

of tonnage to population is unusually large.

An account of the numbers, tonnage, and men, of vessels that entered inward and cleared outward at the port of St. Andrews and its out-bays in 1850.

Place whence entered,	Vessels.	Port.	Entered inward.		Cleared outwa		tward.	
or to which cleared.			No.	Tons.	Men.	No.	Tons.	Men.
		St. Andrews	В	2,374	89	16	4,966	169
United Kingdom	British.	St. Stephens Campo Bello	1 3	327 736	12 27	16	8,219 598	366 20
	U	Magaguadario				1 16	7,076	229
		Total	12	3,437	128	49	20,859	784
	(St. Andrews				3	908	33
United Kingdom	(reign }	St. Stephens				3	1,042	33
		Magaguadario				2	1,235	37
		Total				8	3,185	103
	ſ	St. Andrews	1	414	19			
British West Indies	British.	St. Stephens Magaguadario		1,766	81	21	3,536 154	
•	l (Campo Bello	2	242	13	1	227	6 11
!		Total	11	2,422	113	23	3,917	198
British West Indies	Foreign	St. Stephens				2	250	12
Montevideo	British	St. Stephens				1	167	9
Island St. Martin	British	Campo Bello	2	250	13			
	ſ	St. Andrews		572	44	14	751	54
British N. A. Colonies.	British.	St. Stephens	1	1,544				
		Magaguadario Campo Bello	6 15	503 434		1 -	219 644	ł
	`	Total	73					
			13		~42		2,500	200
	f	St Andrews	126				1,534	96
United States	British.	St. Stephens Magaguadario	23 103				707 2.657	15 284
	(Campo Bello						94
		Total	274	25,534	1,185	160	6,298	489
	(St. Andrews		33,901	2,026	332	32,885	1,986
United States	Foreign ?	St. Stephens			89	7	884	29
		Magaguadario				5	567	21
		Total		<u> </u>		344	34,296	2,036
		Grand total.	732	72,693	3,851	661	71,358	3,867

The total amount of shipping owned at the port of Miramichi on the 31st day of December, 1851, was 93 vessels—7,466 tons. During 1851, the number of new vessels built on the gulf coast of New Brunswick was twenty-one, measuring 11,879 tons; of these four were over 1,000 tons each, and five were over 700 tons each.

The vessels which entered inward and cleared outward at Mira-

michi during the years 1850 and 1851, were as follows:

		18	350.	, * ;
Countries.	İn	ward.	Outward.	
·	Number.	Tons.	Number.	Tons.
Great Britain		16,438	95	34,886
British Colonies		10,695	92	4,888
United States		7,512	3	102
Foreign States	. 13	3,088	6	501
Total	. 202	37,733	196	40,377
	(18	51.	
Countries.	In	ward.	Outv	vard.
	Number.	Tons.	Number.	Tons.
Great Britain	. 48	19,017	104	39,146
British Colonies.		10,305	100	5,581
United States		9,152	6	307
Foreign States	1	1,512	6	220
Total	. 219	39,986	216	45,254

The total value of imports and exports at Miramichi in 1851 is thus

stated: Imports, \$347,990; exports, \$411,700.

Of the imports at Miramichi in 1851, goods and merchandise from the United States, of similar descriptions to those imported at St. John, were received to the extent of \$47,435.

The exports to the United States in 1851 were as follows:

Articles.	Quantity.	Value.
Alewives Salmon Shad Bass Herrings Mackerel Preserved salmon Shingles	458 do. 2 do. 3 do. 55 do. 2 do. 73,736 pounds	\$4,160 5,715 10 15 155 15 13,050
Total		23,255

In the year 1850, five American ships, of the burden of 2,273 tons, took cargoes of timber and deals from Miramichi to London; and in 1851, six American ships, of the burden of 2,954 tons, also took cargoes to the United Kingdom from this port, under the provisions of the British navigation laws.

At the port of Dalhousie the value of imports in 1851 was \$128,570; of exports, \$152,015. There were 28,202 tons of pine timber exported to the United Kingdom in 1851. The shipping returns at this port are as follows: Inward, 108 vessels—21,774 tons; outward, 102 vessels—23,666 tons.

At Bathurst the value of imports in 1851 was \$77,850; of exports, \$115,090. Shipping, inward, 89 vessels—14,065 tons; outward, 79 vessels—15,991 tons.

At Richibucto the value of imports in 1851 was \$109,000, and the value of exports \$133,155. Shipping, inward, 106 vessels—16,786 tons; outward, 105 vessels—18,305 tons. Among the vessels at Richibucto in 1851 were the following vessels not British:

ひたり	B. Duc. 112.
Cargo.	Deals. do. do. Timber and deals, nd Deals. Deals and spars. do. Deals and spars. do. do. Deals. do. do. do. do. do. do. do. d
Whither bound.	London Hull Gloucester do do Hull Belfast, Irelar Hull Grimsby do do Hull Cork
Cargo inward.	BallastdodododoBritish goods.
Tons.	244 250 361 183 345 355 191 350 328 414 279 364 364
Whence.	orwegian. Calais, France russian. New York orwegian. Orwegian. do. Mew York do. nerican. New York do. do. ussian. do. ussian. do. ussian. Halifax. orwegian. New York
Nation.	Norwegian. Calais, i-Fran Prussian. New York Norwegian. Go. American. New York do. Anerican. New York do. Russian. do. Russian. do. Mecklenburg. do. Mecklenburg. Halifax. Prussian. Norwegian. New York
Name of vessel.	Urania Cora Lollando Louise Fortuna Christiana Pacific Florence Paladin Tjofna Minerva Mathilde Helena Hevęlius

The trade of the colony of New Brunswick for the year 1851 is thus summed up:

Imports at St. John Imports at ports on the Gulf Imports at St. Andrews	877,855
Total imports in 1851	4,852,440 4,077,665
Increase in 1851	774,775
Exports from St. John Exports from ports on the Gulf Exports from St. Andrews	1,454,975
Total exports in 1851	3,780,105 3,290,090
Increase in 1851	490,015

Ships inward and outward in New Brunswick in 1851.

	Great Britain.		British Colonies.		United States.		Foreign States.		Total.	
	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.
Inward Outward			1,275 1,182	87,965 73,280	1,453 950	274,594 111,772	57 34	12,926 5,719	3,058 2,981	489,15 0 538,528

Ships and vessels owned in New Brunswick 31st December, 1851.

Number.	Tons.	Total.		
		Number.	Tons.	
438	10.857			
.340	105,854			
		778	116,711	
1				
5	136			
13	1,441	i i		
		18	1,577	
		796	118,288	
	438 .340	438 10,857 .340 105,854 5 136	Number. Tons. Number. 438 10,857 105,854 778 5 136 1,441 18	

Number of new vessels built in New Brunswick in 1851.

	Number.	Tons.
St. John	60 21 6	28,628 5,603 109
	87	34,350

An average of nearly 400 tons to each vessel.

The value of imports into the port of St. John and its outbays from the United States in 1851 was \$1,530,900, being an increase on the preceding year of \$365,000. Fully one-third of all the imports into New Brunswick are drawn from the United States, and the amount would be greatly increased under more liberal arrangements.

Fisheries of New Brunswick in the Bay of Fundy.

The following statement of the extent and value of the New Brunswick fisheries in the Bay of Fundy is from an official document, compiled with great care, in 1850, by a gentleman who, in that year, was appointed to visit and inspect the various fishing stations and establishments in the bay:

Grand Manan.—At this island there are twenty-four fishing vessels, with two hundred and ninety-one men; and ninety-four boats, with two hundred and eighty-two men. The precise quantities of cod, pollack, hake, haddock, and herrings are not stated, but the total catch is

estimated at \$37,500.

Campo Bello.—At this island there are eleven fishing vessels, with fifty-two men; fifty boats, with one hundred men; and twenty-one weirs, attended by one hundred men. The catch of all these in 1850 is thus stated: 5,340 quintals of pollock, 1,750 quintals of cod, 5,100 barrels of herrings, 480 barrels of mackerel, 150 barrels of pickled haddock and cod, 120 barrels of oil, and 40,000 boxes of smoked herrings. Total value, \$40,940.

West Isles.—At this group of islands (in the immediate vicinity of the boundary, near Eastport) there are twenty-seven fishing vessels, with one hundred and fifty-six men; two hundred boats, with five hundred men; and seven weirs, attended by thirty-five men. The catch of these in 1850 is thus stated: 20,800 quintals of pollock and hake, 3,750 quintals of cod, 3,500 barrels of herrings, 800 barrels of pickled cod and haddock, 450 barrels of oil, and 5,000 boxes of smoked herrings. Total value, \$51,060.

Harbor of St. John.—In this harbor there are about two hundred boats and five hundred men employed in the fisheries. The catch of 1850 is thus stated: 40,000 salmon, (exported to Boston, &c., fresh, in

ice,) 14,000 barrels of alewives, and 1,200 barrels of shad. Total value, \$100,000.

Cumberland bay.—In the northeastern arm of the Bay of Fundy, known as Cumberland bay, there are two hundred and thirteen fishing boats, with five hundred and twenty men. The catch of 1850 is thus stated: 4,100 barrels of shad. Value, \$24,000.

At various smaller stations on the bay shore the fisheries for shad, salmon, herrings, cod, pollock, hake, and haddock, were, in 1850, es-

timated at the value of \$10,000.

Total value of New Brunswick fisheries within the Bay of Fundy, in 1850...... \$263,500

The free navigation of the river St. John.

The extent and navigable character of the river St. John have been already noticed.

From its mouth, at the harbor of St. John, in the Bay of Fundy, to its source, at the Metjarmette portage, in the highlands which separate Maine and Canada, its length, as already stated, is four hundred and

fifty miles.

From the sea to the Grand Falls, the distance, as before mentioned, is about two hundred and twenty-five miles: up to that point, the river runs exclusively within British territory. About three miles above the falls, the due north line from the monument at the source of the St. Croix strikes the river St. John; from thence the boundary between Maine and New Brunswick is found in the middle channel or deepest water of the river, up to the St. Francis, a distance of seventy-five miles. In this distance the right bank of the St. John is within the State of Maine, and the left bank in the province of New Brunswick.

From the mouth of the St. Francis to a point on the southwest branch of the St. John, where the line run under the treaty of Washington intersects that branch, the distance is one hundred and twelve miles; and for that entire distance the river St. John is wholly within the

State of Maine.

From the point just mentioned, to the monument at the source of the river on the Metjarmette portage, the distance is about thirty-eight miles. The right bank of the river only is in Maine, the left bank being

within the province of Canada.

It is therefore apparent that nearly one-half of the extensive river St. John is within the United States, whose citizens thus become greatly interested in its navigation. Besides the main stream of the St. John, there are also large tributaries, some of them wholly, and others partially, within the State of Maine; and it has been estimated that there are one thousand three hundred miles of navigable water in the St. John and its tributaries, to be used in common by British subjects and American citizens.

The territory watered by the St. John and its tributaries comprises nine millions of acres in New Brunswick, about two millions in Canada, and six millions in the United States.

The portion within the United States is covered with timber of the most useful and valuable descriptions.

After the settlement of the boundary, by the treaty of Washington, in 1842, it was divided in nearly equal proportions between the States of Maine and Massachusetts, each of which has since sold a number of townships for lumbering purposes, and granted permits for the like

object to a large extent.

The whole of the timber and lumber cut within this district (with the exception of a small quantity which is floated down the Penobscott) finds its way to the seaport of St. John. On being shipped from thence, it has been subject to an export duty, since the 1st May, 1844, at the following rates: on every forty cubic feet of white pine timber, twenty cents; on every forty cubic feet of spruce timber, fifteen cents; and the same on every forty cubic feet of hackmatac, hard-wood timber, masts, or spars; and the sum of twenty cents on every thousand super-

ficial feet of saw-logs, sawed lumber, or scantling.

This export duty is paid by all timber and lumber alike in New Brunswick, and in every part of the province. It was imposed in consequence of the difficulty and expense of collecting stumpage in New Brunswick; and in the local act which first passed in that colony all timber and lumber cut by American citizens, within the limits of the United States, and floated down the river St. John, was expressly excepted from its operation. But, upon the opinion of the law officers of the Crown in England, this act did not receive the royal assent, because it was held that such an exception was contrary to the letter and the spirit of the treaty of Washington, which expressly provides by its 3d article "that all the produce of the forest, in logs, lumber, timber, boards, staves, or shingles, or of agriculture not being manufactured, grown on any of those parts of the State of Maine watered by the river St. John, or by its tributaries—of which fact reasonable evidence shall, if required, be produced—shall have free access into and through the said river, and its said tributaries having their source within the State of Maine, to and from the seaport at the mouth of the said river St. John, and to and round the falls of said river, either by boats, rafts, or other conveyance;" "that when within the province of New Brunswick, the said produce shall be dealt with as if it were the produce of said province."

The refusal of the Crown to assent to the colonial act was based upon the principle that neither the legislature of New Brunswick nor the imperial government had either the right or the power to make any distinction between the produce of the United States floated down the river St. John and the produce of New Brunswick. If it were once conceded that a distinction could be drawn, such distinction could be carried out so as to operate very disadvantageously upon American produce. The British government in such case might maintain that such timber and other articles of the United States floated down the St. John were subject to foreign duty on importation into England, while similar articles from New Brunswick were admitted at a nominal

duty only.

After this construction of the principle of the treaty, the legislature of New Brunswick passed a second act rendering all timber and lumber exported from the province alike subject to the export duty; and this

act has been in operation since May 1, 1844.

The following is a statement of the quantities of timber and lumber being floated down the river St. John during the present season of 1852:

100,000	tons write-pine timber, at so per ton	\$000,000
10,000	tons hackmatac timber, at \$7 per ton	70,000
	white-pine logs, at \$6 per thousand	300,000
	spruce logs, at \$5 per thousand	100,000
	pine boards, at \$15 per thousand	750,000
15,000,000	cedar and pine shingles, at \$3 per thousand	45,000
5,000,000	pieces ciappoard, at \$16 per thousand	80,000
*	# # # # # # # # # # # # # # # # # # #	
	Trotal	1 045 000

As prices are advancing, the value of the produce of the forest above given may be safely stated at two million of dollars.

government of that colony.

In any agreement for the free navigation of the St. John by citizens of the United States, it should be stipulated that their lumber cut within American territory, and floated down the St. John, should not be subject to export duty if shipped from thence to the United States. Such a stipulation would only be just and fair, and would relieve our citizens from the payment into the treasury of New Brunswick of the large sums they now contribute annually toward the support of the

All the timber which floats down the St. John is collected in one boom. Each piece is clearly and distinctly marked, and can be immediately recognised by its owner: if not so marked, it is forfeited to the Boom Company. Crown officers are appointed to examine the whole of the timber which comes down the St. John, and that which is cut within the limits of the United States is readily recognised by them. There could, therefore, be no difficulty in identifying such timber and lumber when shipped, and in relieving it from export duty, if an agreement to that effect should be entered into between the respective governments.

The St. John is navigable by large steamers and by sea-going vessels, of 120 tons, up to Fredericton, which is eighty miles from the Bay of Fundy. In 1848 Fredericton was created a port of entry, and in 1851 two vessels entered there from Boston. It is stated that not less than fifty thousand passengers were transported between St. John and Fredericton by steamers in 1851.

Above Fredericton the river is navigable for small steamers to Woodstock, a distance of sixty-five miles, and from thence to Grand Falls, about seventy-five miles farther up. The river is also occasion-

ally navigated by small steamers during the season.

In 1849 the legislature of New Brunswick granted the sum of \$40,000 towards improving the navigation of the St. John between Fredericton and the Grand Falls; this amount to be expended at the rate of \$8,000 per annum for five years. The expenditure commenced in 1850. The navigation is already greatly improved; and, in a few years, it is believed the river below the Grand Falls will be quite freed from obstructions, and rendered navigable from thence to the sea for light-draught steamers.

In taking the census of 1851 it was found that there are in New Brunswick, upon streams flowing into the St. John, 218 saw mills and 147 grist-mills. The tributaries of the St John afford an amount of water-power which is incalculable; a very small portion only has yet been employed.

The country bordering on the St. John is well adapted for settlement and cultivation; the soil is excellent, and produces large crops. As yet, it is very thinly populated; still it was found, by the recent census, that in the counties bordering on the St. John the following

quantities of cattle were owned, and crops raised, in 1850:

Cattle, 89,657 head; sheep, 96,760; swine, 23,391; hay, 129,000 tons; oats, 846,445 bushels; potatoes, 1,060,883 bushels; wheat, (above Fredericton,) 42,500 bushels; butter, 763,334 cwt.; and ma-

ple sugar, 124,000 pounds.

The larch or hackmatac timber, which abounds in all the territory watered by the St. John and its tributaries, is highly prized for ship-building, and is greatly sought after by American ship-builders. Ships built of this wood are rated as first-class for seven years, while those

built of spruce and pine only stand in that rank four years.

So much of this wood was carried out of New Brunswick into Maine and Massachusetts in 1850 for ship-building purposes, that the legislature of New Brunswick became alarmed, lest the ship-yards of that colony should fall short of a supply; and a special export duty was therefore imposed on knees, foot-hooks, and floor timbers, when sent out of the country. This act has been suspended in its operation during the present year; but the very fact that such a duty has once been imposed, and that it may be demanded in another season, is another and powerful reason for an amicable and equitable arrangement which will open the navigation of the St. John, to citizens of the United States, and relieve them from the payment of all, or any export duties upon their products, whether of the forest, of mines, or of agriculture, in their transit to the sea.

As valuable interests arise, and border relations become more complicated, this question will yearly become more difficult of arrangement. The magnitude of lumbering operations upon the waters of the St. John, and the expense at which those operations are conducted by the enterprising and industrious citizens of Maine, as also the interests of a large body of American citizens, who, in constantly increasing numbers, are forming new settlements on the affluents of the St. John and conducting agricultural operations upon a large scale, demand the

fostering care and watchful protection of government.

A sketch of the early history and of the present state of our knowledge of the geology, mineralogy, and topography of the British provinces of Nova Scotia and New Brunswick, containing information concerning the value of the minerals of those provinces. By Charles T. Jackson, M. D.

Nova Scotia is one of the oldest of the European settlements in America. Little is known of the voyages of the Northmen, but there is reason to believe that those hardy navigators were the first Europeans that visited these shores. They formed, however, no permanent settlements, and hence did nothing towards the civilization of the country. The French navigators, the Jesuit priests, and those adventurous merchants and farmers who accompanied them, did much towards the civilization of this continent, and the marks they made in the wilderness of the great northern and western regions of this country still are extant in every portion of the country between the mouth of the St. Lawrence river and the great lakes of America, and all along the borders of the mighty Mississippi, from the Falls of St. Anthony to the Gulf of Mexico. Without the use of arms the French people conquered the savages of this continent; the cross of the Saviour prevailed where muskets and bayonets would have been of little avail. The ardent and devoted priest, fired with an irrepressible zeal, pressed boldly into the camps of the red men of the forest and of the prairie, and overpowered the superstitious savages by a more magnificent display of the regalia of the Catholic church than had ever been seen by the children of the forest.

Overcome by the pomp and show of the ministers of the cross, the savages bowed before the God of the white men as superior to their own, in no less degree than the gilded trappings of the French priests surpassed the coarse, gingling costumes of their own mystery or medicine men. It was thus that the French people first were enabled to gain foothold among the Indians of America, and to spread their language and religion among the aboriginal tribes of the North and West. Their settlements certainly left monuments which date back as far as to 1606 in Nova Scotia, for the writer of this notice found an ancient tomb-stone on Goat island, in the Anapolis basin, with the inscription "1606." It was undoubtedly a memento of the grave of one of the soldiers or sailors of De Ments' fleet, which established the colony of French people at Port Royal, now Anapolis, in Acadie—now Nova Scotia.

We refer to the settlements of the French, at this early day, because to them we owe our first knowledge of a few of the minerals of this province. The fleet of De Ments carried back to France many of the minerals of the newly-discovered and newly-settled Acadie. A large amethyst from Cape Split, or Cape Blomidon, in the Basin of Mines, was presented to the Queen of France by this intrepid and intelligent navigator on his return from the province to his native shores. This stone is said still to exist among the crown jewels of France, though the country which it represents passed long since into the hands of the British, having been conquered principally through the aid of the then New England colonies of Great Britain—Massachusetts, New Hamp-

shire, and Maine. Native copper was also discovered along the shores of Cape D'Or, and in other places in the trap breccia of the North mountain range; and the name Cape D'Or leads us to believe that the brilliant metallic copper seen beneath the waters which bathe the foot of that promontory was mistaken, at first, for native gold.

The early French settlers were very attentive in their exploration of the mineral wealth of the country, and they manifested more skill and discrimination generally in their estimate of their value, than is to be found among our own pioneers in the wild and uninhabited regions of

this continent.

We shall have occasion to show, in a subsequent communication, how much the French Jesuits did towards the discovery of the hidden treasures of the shores of the great lakes of this country, and shall prove that they knew more of them in 1636 than our own people knew in 1843. It must be remembered that the Jesuit fathers were men of great learning, and possessed a knowledge of all the sciences of their day; hence it is not incredible that they should have done much towards a correct knowledge of the natural history of the various countries which they explored. It is natural, also, that they should have recorded the discoveries which they made, and transmitted an account of them to France, in order to induce more of their countrymen to flock to the shores of the New World. Did time allow us to ransack the archives of the Jesuit colleges, there is no doubt that we should be able to discover records concerning the mineral wealth of Nova Scotia and of New Brunswick, such as we found concerning the minerals of Lake Superior while preparing a report on the mines of that wonderful region for our government a few years since. It seems to be the duty of the historian of mineralogical science to search the records made by the first explorers of the country, as much as it is the duty of the historian of civil and political movements to look back to the origin of facts and data, and to the actions of his predecessors. Unfortunately, we have not the means at hand to enable us to perform this duty.

Leaving the ancient history of our mineralogy to be explored at some future time, we hasten to our task of developing what is now known concerning the geology and mineralogy of these important provinces, remarking, at the outset, that it is only proposed to give a synopsis or brief outline of the facts, without going into minute details of a techni-

cal nature.

Nova Scotia is a most remarkable peninsula, bearing geological evidence of its having been formerly an island of the ocean; the low strip of marshy land between the head of Cumberland bay and Bay Vert appearing to be the silt deposited at the meeting of two counter-currents—one from the present Bay of Fundy, and the other from the St. Lawrence river, and its opposing tidal wave.

Exploring this neck of land farther, we find the underlying rocks consist of the gray, red, and buff-colored sandstones of the coal measures, filled with the stems of the ancient forests that formed the coal beds; and containing innumerable seams of good bituminous coal, many of which are of sufficient magnitude to prove valuable to the coal miners. Lofty cliffs abutting upon the seacoast, at the South Jog-

gins, present to the observer the most beautiful sectional profiles of the coal-bearing strata, with their curious and instructive fossils, both of vegetable and animal origin. Large trunks of trees, such as are at present unknown in a living state, are seen at various points standing at right-angles to the sandstone strata, indicating that they were originally perpendicular to the horizon, and have been since tilted with the stratified rocks from their original position, to an angle of about fifteen degrees from the vertical line.

Beneath the great masses of coal formed from the stems of Sigillaria, we find a thin bed of black shale filled with shells, resembling the genus Dreissena, a fresh-water shell; but they have not been fully determined and described, having been mistaken probably for the genus Mytilus. Above this, the rocks are filled with beautiful stems of the Stigmaria, and of numerous species of Calamites. Alternate beds of excellent bituminous coal are seen cropping out along the shore; and the British North American Mining Company has already opened, and is now working, extensive mines in one of these coal beds. This coal is peculiarly fitted for forges, and is sought with eagerness by the

smiths, both of New Brunswick and of Maine.

A visit to these mines will well repay the traveller who wishes to see the relics of the primeval forests which formed the coal. We have spent hours beneath the ponderous piles of rocks which form these massive cliffs, and have beheld with amazement the huge trunks of trees, mostly of the Sigillaria group, spanning the vault of rocks over our heads-one, forty feet long and from two to three feet in diameter, lying directly across the ceiling of shales which forms the roof of one of the chambers of the mine. In other places we walked beneath the spreading roots of these ancient trees, and measured their expansions in the shale of the roof of the mine. Here and there the scaly stems of the Lepidodendron were seen stretching their tall forms through the rocks, or procumbently reposing, like huge serpents, partly encased in the rocks. Now and then a bunch of coal-black fern-fronds is seen, representing the foliage of the ancient tree-fern; and broad, flag-like leaves remind us of the spreading palms of the tropical islands of the South Pacific ocean. To the geologist the South Joggins coal mines, in spite of its uncouth name, is like enchanted ground, and is to the phytologist a classic land. The enterprising miner sees there the neverfailing signs of a coal deposite; and the quarryman finds excellent materials for buildings and for grindstones. It is from rocks of this very coal formation that the grindstones which are in use over nearly all our Atlantic coast are derived; and the places known as Grindstone island, Cape Merriaguin, and the whole coast of Chigenecto bay, afford abundant strata which yield the very best material from which these useful tools of trade are formed. So on the Peticodiac river, both quarry-stones of superior quality, and excellent grindstones, are obtained in abundance. Cape Rorier is now explored also by enterprising quarrymen, and yields valuable returns.

It is not perhaps generally known that our Atlantic cities, as far south at least as Philadelphia, and perhaps also Baltimore, receive large quantities of beautiful and compact gray, buff-colored, and blue sand-

stones from the Bay of Fundy. The myriads of grindstones which are brought to our market employ an immense amount of tonnage, and give employment to a great number of merchants in all our towns. Who does not know how much our success in agriculture is due to gypsum? Yet, how few stop to inquire whence it is procured. It is nearly all brought from the quarries of Nova Scotia and New Brunswick, and belongs to the coal formation of those provinces. It is used to a truly wonderful extent in the United States, and finds its way, by railroads, canals, rivers, and lakes, into every part of our country where the hand of the farmer is employed in raising grasses, wheat, and corn. A vast amount of tonnage is sustained upon the waters by this traffic in gypsum, taken from nature's inexhaustible storehouses in

the rocks of the provinces which now occupy our attention.

The coals of Nova Scotia are of various kinds, and are wholly different from those of the United States; at least they differ from all the coals which are found on the eastern side of the Appalachian chain of mountains, so that they do not enter into competition with the coals obtained from mines in the United States, which supply our coast. They are some of them suitable for the smith's use, others for steamboats, others for gas-making, &c., and will be always required, whatever may be the supply from our own mines of Pennsylvania, Maryland, and Virginia; the mine near Richmond, Virginia, furnishing the only bituminous coal that will serve in the place of the coals of Nova Scotia. Hence, we shall not fear that any evil can come to our own coal trade from the competition of the British provinces. Coals are found most abundantly in Pictou, at New Caledonia, Glasgow, on East river, and in various parts of the great coal-basin which lies on the northern coast of Nova Scotia. The island of Cape Breton also furnishes an abundance of excellent bituminous coal.

In the province of New Brunswick recent explorations have brought to light a most beautiful, and before unknown, variety of highly bituminous coal, containing sixty per cent. of gas-making bitumen and forty per cent. of coke, which yields but half a pound of ashes per hundred weight. This coal is in the true coal formation, and is found in a highly inclined bed running nearly northeast and southwest, with the trend of the enclosing strata. This coal mine is one of the most remarkable in America; not only on account of its beautiful, clean, glossy, and highly bituminous characters, so admirably adapted for gas making, but also on account of the abundance, beauty, and perfection of its fossils, and especially of its embalmed fishes of the Palæoniscus genus-fishes of the true coal formation of America, and analogous to those of the same formation in Europe. Six or more new species of this genus Palaoniscus we have described in a printed memoir on this coal mine. Time and labor doubtless will add many more to the list, and the Albert county coal mine will become the Mecca of pilgrims in search of fishes of olden time. This coal, as already suggested, is a new variety, particularly adapted to the uses of the gas-house. furnishes a very rich gas, highly charged with carbon, consisting mostly of olefiant gas; and hence, is the very material that is wanted by gas manufacturers to enrich the products of our semi-bituminous coals of Maryland and Virginia. It is not used alone in any gas-works, but is mixed with other coals in the proportions of from one-fifth to one-third, and thus gives the best product that can be obtained; and at the same time, it gives greater value to the coke of our more ash-bearing coals. The importation of the Albert coal into the United States does not, therefore, in any way interfere with the sale of our own coals; but, on the contrary, enables us to use coals that would not otherwise find any market for gas-making. It also saves much outlay in apparatus required for making oil-gas from whale and fish oils, used to enrich the pale or bluish flame produced by gas from many of the coals employed at our gas-works. With the progress of geological research more deposites of this valuable coal will undoubtedly be discovered, and the trade with the United States will tend to draw it within our borders, by the ex-

change of commodities with our provincial brethren.

Thus far we have called attention mostly to the rocks of the coal formation and to their contents. But Nova Scotia is a country rich in geological resources; all the rocks, from the crystalline granites up to the new red sandstone series, being, as it were, drawn together in this province, as are still more extended groups in the island of Great Britain. It is obvious that America has been cast on a most expanded scale, and that our rock formations are so wide and deep as to separate to great distances the various deposites; and, although Vanuxem has in a most patriotic manner declared, that "in proportion to the magnitude of the geological scale is the greatness of nations," we cannot conceal the fact that it would be much more convenient to have our coal a little nearer to our metalliferous deposites, somewhat as they exist in England, Scotland, and Wales. In Nova Scotia the coal is very near to her vast beds and veins of iron ores, and to her copper-bearing rocks. hills furnish good roofing slates, and are full of ores of the metals. Her trap-rocks are of the same age, and contain the same minerals as those on the south shore of Lake Superior, at Keweenaw Point, on the Ontonagon river, and on Isle Royale, which are known to be so rich in mines of native copper and silver. Native copper and silver are found in the trap breccia, and amygdaloid of the north mountains of Nova Scotia, in numerous places from Digby Neck to Cape D'Or; and there is reason to believe, that when there shall be the same amount of scientific labor, and of mining skill and enterprise, expended in searching these rocks in Nova Scotia, that there has been on Lake Superior, there will be exposed many deposites of value to the country, affording to our provincial brethren new means of extending their traffic with our people.

There are beds of sandstone in Nova Scotia which also contain rich ores of copper; but they have been but little explored, on account of the peculiar condition of mining rights in that province, which are not

open to general competition and to private enterprise.

Ores of lead are also found near the Shæbinacudie river, and in other limestone rocks of that province, which belong to the upper Silurian or

to the Devonian groups.

Hones of superior quality are furnished from some of the slates of the coal series, where the argillaceous strata have been acted upon by the igneous trap-rocks. Sandstones suitable for the hearths of iron furnaces are abundantly obtained upon the borders of Cumberland bay, and ores of manganese are abundant as shore pebbles at Quaco and other parts of the Bay of Fundy, and veins of this ore are found in the limestone rocks of the province. Iron ores of the very best quality are abundant near the Basin of Mines, and near Anapolis, at Nictau, and Clements, on Digby Neck, and also near the cold mines of Pictou. These rich iron ores cannot find an American market so long as England furnishes iron to her provinces free of duty, and no market is offered here for Nova Scotia iron except under the same duties as are imposed on that brought

from England. We have not described the beautiful agates, amethysts, chalcedonics, jaspers, cairngorms, and the entire group of zeolite minerals which abound in the amygdaloidal trap of Nova Scotia, and tempt the mineralogist to wander beneath the frowning crags which overhang his head along the Bay of Fundy, rising in mural precipices of from 100 to 600 feet in height, and dropping, after each winter's frost, large heaps of precious specimens ready for the collector; for such things are not looked upon by every one as matters of economic value, though they are really such when they induce travel from distant shores into Nova Scotia, and cause the expenditure of wealth among the people of the province—the inevitable result of inducing travellers to pass their time among them. They are also valuable beyond what most persons suppose, when they add to human knowledge and to the means of instruction in science, for all parts of science are in some way connected with each other, so that the advancement of what appears to be at first a useless branch of learning may open the way to more profound knowledge of the laws of the universe, and brings about results not at first anticipated. No one knows how useful a stone, at first sight apparently useless, may become by the hand of science.

What beautiful laws were opened by Sir David Brewster, and others, by the study of the polarization of light by crystals of these very minerals, so that these discoveries are now reduced to real pecuniary value in every well conducted sugar plantation of the world. Again, the polarization of light is now turned to account not only in detecting the intimate structure of bodies, so as to learn their nature, however masked, but even the light of a wandering comet, or of the flitting aurora borealis, is caught between the polarizing crystals and made to confess whether it is intrinsic, or is borrowed from some other source. We shall, therefore, claim some attention to the curious minerals of Nova Scotia, though their uses may not be all at once apparent.

The topographical features of Nova Scotia are not less remarkable than the geology of that province. We have along the Bay of Fundy

Note.—We refer to the memoir of Messrs. Jackson and Alger on the mineralogy and geology of Nova Scotia, published in the American Journal of Science and of the Arts, for 1828, republished in the Transactions of the American Academy of Arts and Sciences, for 1832, for full descriptions of the interesting minerals and rocks of Nova Scotia. Also, to sundry papers published in the Quarterly Journal of the Geological Society of London, by James Dawson, esq., of Pictou. Also, to Sir Charles Lyell's Travels in America, and to sundry communications published by him in the Quarterly Journal of the Geological Society of London, for remarks on the geology of parts of this interesting province.

a long ridge of mural precipices, excavated by the action of the sea, which wears away the softer amygdaloid and trap breccia lying at the line of junction of the trap rock with the new red sandstone, and forms an overhanging mass of columnar trap rocks in numerous places on that coast. This trap ridge runs ENE., and WSW., and extends one hundred and thirty miles in length from Briar's island, at the extremity of Digby Neck, to Capes Split and Blomidon. There cannot be a more picturesque coast than this. These frowing crags, with their crowded forests of fir and spruce trees, first meet the eye as we cross the Bay of Fundy. Their height serves to protect the interior from the driving fogs of the bay, which melt into thin air as they pass up the sides of these mountains and disappear.

Beyond this barrier we come to the rich and beautiful valley of the Anapolis river, which takes its rise in the Garden of Acadie, Cornwal-

lis, where the teeming soil bears abundant produce.

Passing this valley as we wend our way across the country, we come to the South mountains, the great Silurian ridge of slate rocks, containing the rich iron ores of Nictau and Clements, so remarkable for their abundant Silurian fossils, such as the asaphus crypturus, del thysis, and other well known fossils of the Silurian rocks. Beyond this, we come to the granite rocks which were elevated subsequently to the deposition of the strata of Silurian slates, and have lifted them at a

bold angle with the horizon.

This is a cross section of Nova Scotia. If now we travel to the northeastward, we soon change the scene and find ourselves on the Permean sandstones near Windsor, and soon come to the gypsum rocks in the coal series of the province, where we wander over extensive hills of gypsum, and see the quarries wrought by the busy miner and quarryman. Riding over a fine road to Halifax, we come to the flinty slates of that town, so remarkable for their hard sterility. Travelling northward to Pictou, we traverse extensive beds of Devonian limestone, and soon come to the rich deposites of coal and of iron ore in the district of Pictou, and on the East river, in New Glasgow. This whole region is rich and beautiful, and is settled mostly by Highlanders from Scotland while, in other parts of Nova Scotia, as at Halifax and in the valley of Anapolis, we have English and Irish; and on Digby Neck, Hessians, American refugees, and French. The French population is mostly on the other side of St. Mary's bay, on Sissaloo river-an old French colony, the remains of the French neutral colony.

Nova Scotia is remarkably temperate, considering its northern latitude, the almost insular position of the province, and the proximity of the gulf-stream serving to render the climate more mild than that of Canada. The tides of the Bay of Fundy have always attracted much attention, on account of the great ebb and flow, and the manner in which the tide enters the narrow bays and runs up the rivers, both in New Brunswick and Nova Scotia. It is obvious to the hydrographer, that the great tidal wave enters the Bay of Fundy at its wide tunnel-like mouth, and is kept from spreading by its rocky walls, and is forced into a narrow compass as into a tunnel's neck. Hence the impetuous waters, compressed into a narrow space, rise with fearful rapidity,

rushing up in what is called a bore, sometimes four or six feet in height at the heads of bays and up the river channels. On the Peticodiac, at the bend of the river, this bore is seen to the greatest advantage. The tides rise, at the highest, to about sixty feet at the head of the bay, while the rise is not more than thirty feet at the mouth of the bay. The fishermen know how to make use of these rapid tides, and always manage to go with the current. Hence the Peticodiac is sometimes called "lazy-man's river," since rowing is quite unnecessary, the tide bearing the boat whither the boatman wishes, he only having to guide her course. Every one knows that the rivers of the Bay of Fundy are full of fine shad and salmon in their season, and the herrings of Digby are known all the country over for their excellence.

Observations on the geological resources of the province of New Brunswick.

We have already given a brief sketch of the valuable mines and quarries on the New Brunswick side of the Bay of Fundy, though much more might have been stated had time been allowed for a minute in-

vestigation of that important district.

We shall now extend our observations inland, and point out some of the more prominent features of this province, so far as our personal ob servations will permit. Leaving the township of Hillsboro', we travel towards St. John, and find rocks of the coal formation, gray sandstones, snowy-white gypsum, and other rocks of that series, which are here and there found resting upon hills of signite, hornblende rock, and other crystalline aggregates of hypogene origin. On the borders of these extensive rocks we find novaculite of a green color, which appears to be an altered slate rock and a conglomerate of its broken fragments consolidated by an argillaceous cement. Reaching Sussex vale, we come to some of the richest and purest salt springs known in this country, and witness the manufacture of the finest flavored and purest table salt-an article justly prized above any kind of salt made in the country, on account of its freedom from deliquescent salts of lime and magnesia. Now on the borders of the beautiful Kennebekaris river, we followed its meanderings through one of the most picturesque valleys of the province, and find on the steep flanks of the hills the continuous out-cropping of red sandstones of the Devonian group, which support the coal formation of the more eastern district before described. This valley is obviously one of denudation, and the deeply scored rocks evince the passage, in olden time, of currents of water and floes of ice loaded with imbedded rocks and frozen soil.

The broad and beautiful Kennebekaris bay spreads before us, and is bordered by limestone rocks of the Devonian group. We next enter the city of St. John, the great mercantile entrepôt of the province, where ride large numbers of great ships, lading and unlading, and carrying on an extensive commerce with the mother country. The city of St. John is surrounded by excellent limestones; and some of the gray sandstones are found to contain large fossil trees, indicating that they belong to the rocks not very far below the coal series; while the slates of the Great Falls, a mile or two from the populous

portions of the city, contain the largest bed of plumbago known in America—a kind approaching, in some degree, to a metamorphosed coal, but still sufficiently pure for the manufacture of lustre, and for the preparation of moulds for iron castings. Masses of igneous rocks of the trappean order are seen at Indiantown, a part of St. John city, and this igneous rock is supposed to underlie the metamorphosed limestones and slates of the town. It is remarkable that no remains of fossils are found in this limestone to denote its geological age. Ascending the river, we find, along its banks, the most curious display of the strata of the country. Red sandstone, slates, and limestone are the common rocks which meet the eye until we reach Fredericton, where the coal formation crosses the river to its southern bank. There is an extensive deposite of the coal-bearing rocks around Grand lake, on the northern side of the St. John, below Fredericton, and mines have been opened in many places along its borders, from which excellent coals have been obtained. They are especially prized for use in the forge, since they are of the coking variety, useful in making a hollow fire.

No spot thus far examined has furnished such beautiful specimens of fossil plants of the coal formation. They are chiefly of the tribe of ferns and of Lepidodendra; and the perfection of these remains of ancient vegetation cannot but excite the admiration of geologists and botanists; for the substance of the plants is perfectly preserved, and is of a perfectly black color, while the shales in which they are found are of a light neutral tint of gray, giving great relief and distinctness to the conserved and charred foliage. Even the fructification of the ferns is perfectly distinct on their foliage, and every scale and leaf of the Lepidodendron is found entire. The beds of coal thus far opened have not been found of much thickness-most of them not being more than from a foot to eighteen inches thick—but some are of greater magnitude; and we are informed that new beds of ample dimensions for profitable working have been found within this district, and are now opened by miners. There is every reason to believe that important coal mines will be found on the borders of this lake, and the time will come when their fuel will be required in St. John and along the borders of the river. It will serve admirably for fuel in the furnaces of steamboats which ply on the waters of this magnificent river.

Still ascending the St. John by steamboats, we come to Woodstock, on the western side of the river; and here, on the borders of the Meduxnekeag river, a few miles above the town, we come to one of the most extensive deposites of red hæmatite iron ore—a perfectly in-

exhaustible bed.

This, though so highly charged with manganese as to make white and brittle cast-iron, resembling antimony in its fractured surface, furnishes the very toughest kind of bar-iron, having eminently the properties required for making the finest cast-steel. It has been for many years exported to England for that purpose; but owing to the late reduction of price in English iron, caused by the glut of the European market, the furnace-fires have ceased at Woodstock for the present, but will probably, as the price is now rising again, soon go into blast

for the production of pig-iron to be used in making bar-iron in the puddling furnaces of England.

Ores of manganese are also found around Woodstock, though they

have not yet been sent to market.*

Still ascending the St. John, we come to the Tobique river, which enters the St. John, on the eastern side, a little below the Aroostook. A few miles from the mouth of the Tobique we find the red sandstone rocks, like those of Nova Scotia, full of excellent gypsum. Springs of salt water are also said to have been found therein. This gypsum will prove valuable to the farmers on both sides of the St. John, and will save the expense of bringing that mineral up the river. A tribe of Indians still dwell on the bottlers of the Tobique, and have their principal camps at the mouth of the river. They still find occupation in the chase, and even to this time take many beaver, otter, and sable, besides hunting bears, moose, and caribou, in the forests.

A few miles more of canoe voyage brings us to the upper falls of the St. John—a magnificent cataract of 70 or 80 feet perpendicular descent. This is one of the most picturesque spots on the river, and will in due time become a favorite place of resort in the summer season. Here the river is closely confined between lofty crags of slaty limestone, and makes a sudden turn in its course as it bursts through its rocky barriers. Its beauty is not destroyed by the great saw-mills that were built upon the edge of the falls by the late Sir John Caldwell; but the business created on the spot has brought a sufficient number of settlers to make the place more cheerful. Above the falls the river expands, and is as tranquil as a placid lake. We followed its windings in our canoe for many days, stopping at night among the hospitable and naturally polite French people who live in humble simplicity on the borders of the river, pursuing their quiet mode of life, undisturbed by the thirst for gain that torments dwellers in the great mercantile cities of the coast.

The people of Madawaska are descendants of the French neutrals of Acadia, and very much resemble, in their mode of life, the people of Sissaloo, on the St. Mary's river. They have few wants, and these are easily supplied by means of their own skill in the chase and in rural labor.

For forty miles above the falls of the St. John, the French settlements of Madawaska are scattered along both sides of the river, the

principal settlements being on the provincial side of the river.

Some fifty miles farther up, the St. John divides into numerous branches, which extend into Canada on the north and into Maine on the south. The St. François is its most important Canadian branch, and the Allagosh, with its numerous lakes, and the Aroostook, extending almost to the northwest angle of Maine, where it nearly reaches the corners of New Hampshire and of Canada, are the longest tributaries of this great river. That portion of the river is but little known to this day except to the Indian hunter; and it is not, so far as we can learn, very inviting to the canoe voyageur. The whole region of country above the falls of the St. John is based upon a blue slaty limestone, probably of the silurian group of rocks; but it is not rich in fossils or in minerals of value. The soil is excellent all over these

rocks, and bears good crops of the cereal grains and large burdens of

grass when cleared and cultivated.

Having no personal knowledge of the eastern coast of the province, the Bay of Chaleur, of Miramichi, or of any part of the shores of the Gulf of St. Lawrence, we must leave that portion of the province to be described by others. The province of New Brunswick is known to contain an abundance of the very best kinds of timber for ship-building, and for sawing into boards, plank, and deals. Much of her commercial intercourse with the mother country is sustained by this trade. Ships of the largest class of merchantmen are, therefore, nearly as frequent in the harbor of St. John as in the ports of the United States, for this class of vessels is adapted more particularly for the transportation of bulky timber, spars, and masts. Most of the ships which sail from St. John are built and owned in the province.

New Brunswick, as has already been observed, contains some very remarkable deposites of coal, accompanied by a series of most perfect fossils. The most remarkable of these deposites is the Albert coalmine, in Hillsboro', near the banks of the Peticodiac river. This coalbed is included in shales, with an underlying mass of soft slate, equivalent to the under-clay of most bituminous coal-beds, and the coal is directly overlaid by strata of highly bituminous shales, filled with scales of ganoid fishes, and with the entire embalmed remains of beautiful species of the genus Palæoniscus fishes of the ganoid order. fossils were originally discovered by the writer of this article in the spring of 1851, and descriptions of them were read by him before the Boston Society of Natural History at their second meeting in May of that year, and that paper was subsequently incorporated into a report to the Albert Coal Company, from which report we now extract the following:

"Descriptions of the fossil fishes of the Albert Coal Mine.

"Pl. I., Fig. 1. This fish is the first one that was discovered by me at the Albert mine.

"Description: Fish, four diameters of its body long; head, obtuse or blunt, as if obliquely compressed on upper and front part; whole length, 3_{10}^{3} inches; width in middle of body, $\frac{85}{100}$ inch; fins, one dorsal, opposite anal, small triangular, ³/₁₀ of an inch at base, jointed, drooping, as if the fish was dead before it was enclosed in the mud, (now shale.) Anal, small, triangular, a little larger than dorsal; pectoral, small, compressed into mass of scales of body of the fish; tail, bifurcated, unequal, very long, and tapering in upper division, which extends to a fine point. The scales run down on upper division of tail, and become gradually smaller to tip; caudal rays come exclusively from under side of upper, and from lower division of tail. Scales of body brilliant, rhomboidal, wavy, serrated on posterior margins, color light brown. This fish is embalmed and not petrified. No ridge of bone is seen to indicate the vertebral column; hence the bones must have been cartilaginous and compressible. The gill plates are too confusedly compressed to be dissected. I cannot find in any published book any figure of a fossil fish identical with this. It is evidently a Palæoniscus,

and is probably a young individual, as seems to be indicated by its small size and the delicacy of its scales. We will name it, provisionally, *Palæoniscus Alberti*, in commemoration of its being the first fossil

fish discovered in Albert county, in New Brunswick.

"Pl. I., Fig. 2. This beautiful fish was found by Mr. Brown, the captain of the mine, subsequent to my first visit to Hillsboro'. It is one of the largest, or full grown species. It was unfortunately broken in the operation of extracting it, but it still is a very valuable specimen. This being the first fossil fish found by the chief miner, I have named it Palæoniscus Brownii.

"Description: Fish nearly whole. It is one of the largest species yet found, and its length is three times the greatest width of its body; whole length, $5\frac{1}{10}$ inches; breadth, $1\frac{7}{10}$ inches; head broken off just in front of pectoral fin; extremity of tail broken; abdominal fin missing, it having been broken in getting out the specimen. Dorsal fin, a little behind middle of body, opposite, or rather a little in front of anal.

"Pl. I., Fig. 3, represents a perfect fish of the genus Palæoniscus, which was found on the 3d of June last. In its general form and appearance it resembles the *Palæoniscus Elegans* of Professor Sedgewick, (Lond. Geol. Trans., 2d series, Vol. iii, Pl. 9, Fig. 1,) and Agassiz, (Recherches sur les Poissons Fossiles, Vol. ii, Tab. 10, Fig. 5,) but it differs from that species in the striation of the scales, the striæ of the Hillsboro' species being parallel to the anterior and lower margins of the scales, and the shape of the scales differing essentially from Mr.

Sedgewick's species.

"Description: Fish, long and slender, $4\frac{1}{2}$ diameters of its body long; length of head, a little less than the largest diameter of the body; the head has the shape of an equilateral spherical triangle; tip of nose, or snout, curiously tuberculated and dotted; gill plates cannot be dissected, they are so brittle and confused with the head; fins, pectoral a little behind gill plates, and extend below the fish $\frac{3}{10}$ of an inch—it is a narrow pointed fin, well marked with its rays. Dorsal fin far back towards the tail, a little anterior to anal; it is half an inch long and $\frac{2}{10}$ of an inch high, and is well marked with its rays. Anal fin somewhat larger than dorsal, a little posterior to it. Abdominal fin very small, situated a very little in advance of the middle of the body; tail unequally bifurcated or heterocercal; scales run down on it becoming smaller and more and more acutely rhomboidal or lozenge-shaped as they recede; caudal rays come exclusively from under side of upper division of tail. Scales obtusely rhomboidal on anterior and middle of body, and are distinctly striated parallel to anterior and lower margins, while they are smooth and very brilliant towards and upon the tail; dorsal scales large, and in form of obtuse spherical triangles, pointing backwards towards the dorsal fin. This species is not described in any book I have examined, and, believing it to be new, I shall take the liberty of naming it Palæoniscus Cairnsii, after the highly intelligent superintendent of the Albert coal-mine, William Cairns, to whose active and unremitting labors I am indebted for so many specimens of these interesting fossils.

"Pl. I., Fig. 4. This large and elegant fish was most unfortunately broken in splitting it out from the rock, only the posterior part of it

having been saved in a fit condition for delineation. The whole length of the fish was originally fifteen inches. That portion which remains entire, is 5½ inches long; it was broken off through the posterior edge of the dorsal fin. It was an old fish, as is evident from the appearance of the scales, which are thick, heavy, and have their striations in part obliterated, while the serrations are extremely sharp and deep. The scales are elongated rhomboids, and have many striatupon their surface, which run parallel with their upper and lower margins. Caudal scales, acute lozenges. They run down on upper division, which is long, and covered with scales. Rays of tail come off very distinctly, exclusively from under side of the upper division, and the tail is unequal or heterocercal. Until we obtain an entire specimen, perhaps it will be prudent to abstain from giving a specific name. (See Pl. I., Fig. 5, now named P. Allisoni.) It is a species of the genus Palæoniscus.

"Pl. II., Fig. 1. This species so nearly resembles the *Palæoniscus decorus* of Sir Philip M. de Egerton as on first view to pass for it; but on examining the lines of striæ, we are forced to regard it as another species. The four great dorsal scales, anterior to the dorsal fin, exactly resemble in form those represented in Sir Philip M. de Egerton's plate. (See Quarterly Journal Geological Society of London, for 1849.) The scales of one specimen are striated, parallel with the superior and inferior margins, and are deeply and acutely serrated on their posterior edges. The lines of striation are worn away considerably, indicating, perhaps, that it was an old fish. It was, when entire, about eight inches long, and it is two inches in diameter from the anterior edges of the dorsal and anal fins. The lithographic delineation gives a sufficiently full exhibition of the characters of this specimen, which appears to be of the same species, or very near the species, last described.

"Fig. 2, 2 bis, are delineations of specimens of shale, representing a fish and its counter print in the rock, just as it was split open. It is a small species of Palæoniscus, compressed vertically, and is contorted as if the fish had struggled to extricate himself when imprisoned in the mud that now forms this rock. The line of dorsal scales, in the middle of this fish, proves its position to be as I have stated, and this opinion is still further confirmed by the shape of the head, and by the open gill covers. This fish must have been caught in the mud alive, since it was in

an upright position.

"Fig. 3. represents a beautiful and perfect fish, found at the new pit of the Albert coal mine, by Mr. Wallace, deputy collector of Hillsboro', who kindly presented it to me. It is compressed vertically, or from the back towards the abdomen, and the head is also vertically compressed between the strata. The large dorsal scales, so characteristic, are seen along the middle of the fish. There is a coprolite seen projecting from near the middle of the fish, and it is not certain whether it is included partially in its body, or was in the mud before the fish was deposited or caught. The body of the fish curves over the coprolite as if it had been a hard substance.

"Description: Fish is 4½ diameters of its body long; body 3½

inches long; head in form of equilateral spherical triangle; gills open; back of head beautifully marked by tuberculations, or striæ and dots; dorsal scales oval-shaped and striated, the most pointed part of the scale being towards the tail; they run along the entire back to the tail, excepting at the place where the dorsal fin is compressed; scales of body serrated on posterior margins, and striated parallel with their upper and lower edges, and wavy in middle. I am disposed to regard this individual as belonging to the same species as the one before de-

"Fig. 2, 2 bis.—Figure 7 represents a lower jaw of a Palæoniscus from the Albert mines. It is interesting as showing the mode of dentition of these ancient fishes; the teeth are here seen to be in a line fixed in regular sockets in the jaw, like those of salmon; the jaw is beautifully marked with little raised dots, visible under an ordinary lens; the teeth agree with those observed by Sir Philip M. de Egerton. (See Quarterly Jour. Geol. Soc., Lond., 1849.)

"Fig. 8.—This specimen was discovered by me in the shale of the new shaft of the Albert mines. It is peculiarly interesting on account of the entire preservation of its abdominal fin, and also on account of its association with a coprolite which seems to have belonged to this

individual.

"Description: Fish, entire; length, $3\frac{7}{10}$ inches; width of the body, ⁷/₁₀ of an inch; length of the head, equal to the greatest width of the body; fish, four diameters of its body in length; fins, one dorsal, opposite anal, situated in the posterior, third of body; anal fin little larger than dorsal; abdominal fin small, situated a little in advance of the middle of the body of the fish; pectoral fin a little larger than abdominal; scales, large and brilliant, having a light-brown color striated parallel to anterior margins transversely, and longitudinally in middle, but finer than on anterior margins; tail, more regular than the before-described species, but still unequal; has scales in upper division. This specimen also presents another curious feature; its tail having been amputated by a shift of the strata, and the fracture being polished and recemented a little out of place. Head more acute than any of the before-described species, and very perfectly preserved, having the fine markings of the gill covers and the striæ and markings distinct, and also what appears to be the impression of the tongue of the fish. orbitar ring is also preserved, and is a horn-like circle, or ring, filled with bituminous shale or clay. A coprolite under the abdomen of the fish is a cylindrical mass, rounded at each end, 7 of an inch long, and $\frac{3}{10}$ of an inch in diameter. It is of an ash-gray color, and includes what appear to be small black scales of fishes."

Descriptions of the scales of fossil fishes from the Albert coal mine, with analysis of the scales.

Owing to the perfect preservation of the body of the fish, and of ganoid fish-scales in the rocks, it is as easy to identify them as if the fish were still living; for the substance of a ganoid fish-scale is of the nature of bone, as will be shown by the following analysis of the scales of Palaoniscus, from the Albert coal mines: 0.62 gramme of the scales

from the middle of the body of the fish (Pl. I., fig. 4,) submitted to analysis, gave the following results:

Animal matter		
Carbonate of lime	.0.0980	
Phosphoric acid	0.2452) Phosphoto of lime and of
Lime	0.1234	magnetic 0 4200
Magnesia	0.0623	magnesia, 0.4505.
Silica	.0.0040	
	0.6129	

By analysis of another portion of the same fish, it is proved that the fibrinous and albuminous matter composing the fish is still unchanged in composition, so far as its elements are considered.

The important element proving the presence of animal matter is nitrogen, which is separated by analysis into the state of ammonia. This, by two determinations, was found to be in one 15.56 per cent., and in the other 16.54 nitrogen; the mean being 16.05 per cent., which is the amount of nitrogen in fibrine and albumen.

Description of the scales of Palæonisci from the shales of the Albert coal mine.

Plate I. A. Portion of shale, with impressions of Palaeniscus scales of three varieties, seen enlarged in a, b, c; a is one of the scales from the middle of the body of the fish, and shows the articulating process by which it is attached to the lower edge of the scale next above it on the fish. The striations of the scale, and the serrations of its right extremity, are distinctly shown. b represents one of the fulcre or scales near the fins of the fish; a group of three of them are seen in specimen a. c is a broad scale from the lower part of the body near the tail.

B represents two *fulcre* or fin scales from the back, at the dorsal fin. The enlarged views of them give a full explanation of their structure. They have been mistaken not unfrequently for teeth, since the larger scales bear some resemblance to the teeth of placoid fishes, and to sauroid fishes' teeth. C represents a specimen of another species of *Palæoniscus* scale. It is, in the original specimen, the most perfect that has been seen at the mine; above it is a correctly enlarged figure of this scale.

The reader is perhaps aware that geologists have adopted the division of fishes, as proposed by Agassiz, as classified by their scales, which are of four orders: 1. Placoid, (broad plate,) of which the sharks' scales are illustrative. 2. Ganoid, (resplendent,) hard, bony scales; example, the American gar-pike. 3. Ctenoid, (comb-like;) example, scales of the perch. 4. Cycloid, (circular;) examples, herring, salmon, cod, pollock scales.

These divisions suffice for most purposes in identifying fishes; and it fortunately happens that most of the fossil fishes—all of those of an ancient type—belong to the bony-scale group; and the character of the scale of one of these fishes remains unaltered in the rock where it

was originally imbedded at the time of its deposition.

Plate I., Fig. 5, represents the head and part of the body of a very

large fish of the genus Palaoniscus. It appears to belong to the same

species with fig. 4 of same plate, and fig. 1 of plate II.

Description: Width of body of fish, 3 inches; length, probably from 15 to 18 inches; head, strong, firm, and more bony than usual with fishes of this group; length, from 2½ to 3 inches; width, 2 inches; gill-plates distinct, but crushed together, so that they cannot be dissected, since they adhere firmly together; pectoral fin, short, strong, and has a rounded and heavy shoulder of great strength, covered with a long armor, striated obliquely backwards and downwards. Other fins were broken from the specimen before I received it and lost; but those wanting are seen on fig. 4 of this plate, and fig. 1 of Pl. II. Prints of five of the great dorsal scales distinct in the rock—scales broken off. Scales of body perfect, scryated, and distinctly striated with wavy lines horizontally, and slightly curving towards the posterior upper angle of scale. A marked swelling in the place of the stomach shows that the organ is filled with the food of the fish. Color of the fish light clove brown, or a little more inclined to cinnamon brown.

This fish I propose to name in honor of the enterprising projector of the mine, who presented me with the specimen: Palæoniscus Allisoni,

in honor of Edward Allison, esq., of St. John.

List of the Fossil Plants found in the Shales of the Albert Coal Mine.

The fossil fishes already described belong to the genera known to characterize the coal formations of Europe; but, as might be expected from other analogous facts, the American species are not identical with any known in the Old World, though they closely resemble them. They are of the same genus, but of new and before undescribed species.

The plants found associated with these fishes concur in proving the formation at the Albert mine to be in the true coal series, and thus set at rest those doubts which were hastily expressed by other geologists, who made a cursory examination of this mine, and who knew not the

facts contained in this paper.

Plate III, Figs. 1 and 2, represent a specimen of Lepidodendron, analogous to the L. Gracile of Ad. Brogniart, though not identical with that species. Figs. 3 and 3 bis represent the fruit of the Lepidodendron, or Lepidostrobus, found in the shale of this mine. Figs. 4, 5, and 8 represent a plant about which some doubt still exists, but which was supposed to be some species of Spheraedra; but it differs from that plant in several respects, as will be discovered on comparing it with the plate in the work of Lindley and Hutton. Figs. 6 and 7 are broad flag-like leaves, supposed to belong to the palm tribe. Fig. 9 is the common calamite of the coal formation, and was found in the gray sand-stone below the coal bed at the Albert mine. These plants are similar to those found in the coal mines of Nova Scotia and of other parts of New Brunswick, and are like those found in the anthracite mines at Mansfield, Massachusetts, and in the semi-bituminous coal mines of Maryland and of Virginia. Figs. 4, 5, and 8, represent the only plant that I have not before discovered in our coal formation. This plant is evidently a succulent annual, as evinced by its contorted and drooping stem, and was probably an aquatic plant, such as are found growing in marshy places or bogs. Its association with fishes indicates its being an aquatic plant, or one growing on the borders of a lake or river. It is not a *fucoid*, as has been alleged, for it has alternate branches.

The following is an elementary analysis of the Albert coal, made by

C. T. Jackson:

Carbon	75.2
Hydrogen	7.6
HydrogenOxygen and a little nitrogen	17.2
Total	100.0
	,====
The coal yields	0 per cent. of volatile matter.
The coal yields	0 do. of coke.
	-
Total 1.0	0

And the coke leaves 0.47 per cent. of red ashes. The coal cokes readily, and cements closely, if compressed; but it does not melt, though it softens if slowly heated to redness in close vessels. It yields 20 per cent. of soluble bituminous matters to benzole, and from 12 to 15 per cent. to oil of turpentine. The solubility of a portion of its bitumen led most persons, at first, to suppose that it was a kind of bitumen; but the discovery of organic structure in the coal itself removed this error, and chemical researches proved the coal to be a little more bituminous than the cannel coals of commerce. There can be no doubt of the fact that this coal is in the true coal field of the provinces.

The discovery of other beds of this valuable substance is highly

desirable, and the field has been as yet but little explored.

Agricultural Resources of New Brunswick and of Nova Scotia.

Viewing the rocks which have, by their decomposition, produced the mineral matters of the soil of the provinces of New Brunswick and of Nova Scotia, we see that every mineral ingredient requisite for the formation of good soils must be contained in them; and the drift agencies, whether of ice or water, in olden time, have duly commingled the detritus, so as to diffuse the different mineral substances. Vegetable matters—the foliage which drops from deciduous trees; the peat mosses, which grow in humid places, and decayed trunks of trees—have added the matters which produce humus, or vegetable mould; and thus we have formed, by the hand of Nature, the soils which we cultivate.

From geological considerations we should a priori regard the soils of New Brunswick and of Nova Scotia as capable of bearing any of our usual crops of cultivated plants, as well as the usual forest trees of northern climes. Such we know by observation to be the fact; and the only influences which prevent the soil of these provinces from bearing any and all kinds of plants are those of climate. The cold of long

winters limits the growth of crops to a few months; and only those which are hardy, and are adapted to the climate, can be raised advantageously. We have, then, to inquire what are the crops which experience has proved to be the best for the countries in question. It is known that the northern portions of America "possess an excessive climate,"* viz: one of extreme heat in summer, and of great cold in winter. Such climates produce a most rapid growth of vegetation; for the heat of a summer's sun hurries forward the processes of vegetable growth, and an early autumn brings the ripening to a close. Plants, which ripen more slowly in temperate climes, have to be gradually acclimated before they can accommodate themselves to the short seasons of the north. Hence the variety of zea maize (Indian corn) which grows in Canada differs in its habits of growth from the southern corn, and ripens, where corn of a more southern-raised seed would perish, in the milk, by frost. There are many of our usual plants that will bear this acclimating process above referred to; others we had not been able to subdue to our short seasons. The potato is much improved by being hastened in its growth in the way above alluded to, and the provinces of New Brunswick and Nova Scotia produce the best potatoes known in this country. The smaller cereals—such as oats, rye, barley, and summer wheat—ripen perfectly in these provinces, and the grain is of excellent quality and of remarkable sweetness.

Turnips of every variety grow well, and pease, beans, and other leguminous plants are known to thrive admirably. In short, we may say, from observation of the fact, that all the usual culinary vegetables, which grow in the States of Maine and New Hampshire, thrive equally in the soil and climate of the two provinces we are describing. Fruit trees, also, with the exception of the peach, (which does not bear well the intense cold of winter,) produce good fruit in these provinces.

The most highly valued crop among the farmers of New Brunswick is grass, which, with the least labor, is the most profitable crop; for good hay is not only required for keeping of the stock on the farm, but is also extensively in demand among the timber-cutters of the forest, for the supply of food to their teams of cattle. Large quantities of pressed hay, in bundles, are also exported from the provinces to the cities of the United States. Four-fifths of the land on every large farm may be advantageously laid down in grass and be kept for mowing land, until it is so old as to require to be taken up by the plough; and this is done gradually, so as to keep but a limited portion of the land in tillage, for there are few farmers in the province who can cultivate more than thirty acres of tilled land to advantage, and therefore they have to keep the rest of the farm in grass, which it is also advantageous for them to do, on other accounts, as above specified.

It is well known that little progress has been made in agriculture in the provinces, for the forests, full of heavy timber trees, tempt the agricultural portion of the community to engage in the heavier and more immediately profitable enterprises of lumber cutting and sawing. This business, although not so beneficial to the character of the people as the more civilized life of farming, has its advantages, not to be over-

looked. It produces a hardy set of men, and encourages, to some extent, the establishment of manufacturing operations, by familiarizing the people with the machinery of mills, and with the various mechanical

operations connected with the business.

Thus far the demand for food in the provinces is vastly beyond the supply raised on the soil, and no exports of grain, or indeed of any agricultural produce, save of potatoes and of hay, takes place from either of them. Oats of superior quality are raised on Prince Edward's island, and brought to Boston, where they command a higher price than the kinds raised in the States. This is probably the only grain that we can expect to receive from the Lower provinces. Immense quantities of flour from the United States finds its way to these provinces; but there is now growing up in Canada West a powerful competition with us in this trade; for the soil of that portion of Canada is of the same quality as that of the neighboring State of New York, and will produce wheat equally well and of as good quality.

In the course of time the province of New Brunswick will become more successful in the cultivation of her soil. The improvements of science will gradually extend themselves among the farmers there, as they have done, and are still doing, with us; but still it may be more advantageous for the people of New Brunswick to obtain their chief supply of flour and corn from the United States, provided they can furnish, in the course of trade, other products of their own soil, as they do of their waters and of their forests. Mines of coal and of iron they have in abundance; building-stones, grindstones, roofing slates, gypsum, and salt, and manganese, they already export, and can supply in as large quantities as may be required; and the time will come when ores of lead and of copper will be added to the exports of the provinces of New Brunswick and of Nova Scotia.

C. T. JACKSON, M. D.,

Assayer to the State of Massachusetts, &c., &c.

PART VII.

NOVA SCOTIA.

The province of Nova Scotia now includes Cape Breton, which at

one period was under a separate government.

Nova Scotia proper is a long peninsula, nearly wedge-shaped, connected at its eastern and broadest extremity with the continent of North America by an isthmus only fifteen miles wide. This narrow slip of land separates the waters of the Bay of Fundy from those of the Gulf of St. Lawrence. The peninsula stretches from southwest to northeast, fronting the Atlantic ocean; its extreme length being about two hundred and eighty miles.

The singular and valuable island of Cape Breton lies to the eastward of Nova Scotia, from which it is only separated by the strait of Canso. This strait is in length about twenty miles, and in breadth about one mile. Cape Breton is more particularly described under

a separate head.

The most remarkable feature in the peninsula of Nova Scotia is the numerous indentations along its coasts. A vast and uninterrupted body of water, impelled by the trade-wind from the coast of Africa to the American continent, strikes the Nova Scotia shore between 44° and 45° north latitude with great force. A barrier of fifteen miles only (the strip of land already mentioned) between the Atlantic ocean and Gulf of St. Lawrence seems to have escaped such a catastrophe, while a space of one hundred miles in length, and upwards of forty in breadth, has been swallowed up in the vortex, which rolls its tremendous tides of sixty and seventy feet in height up the Bay of Fundy. This bay bounds Nova Scotia on its northwest side, and separates it from the continent.

The combined influence of the same powerful agent and of the Atlantic ocean has produced, though in a less striking manner, the same effect upon the southeastern shore. Owing to the operation of these causes, the harbors of Nova Scotia, on its Atlantic coast, for number, capacity, and safety, are perhaps unparalleled in any part of the world.

It is stated that between Halifax and Cape Canso there are twelve ports capable of receiving ships-of-the-line, and fourteen others of sufficient depth for merchantmen.

A broad belt of high and broken land runs along the Atlantic shores of Nova Scotia, from Cape Canso to Cape Sable. The breadth of this belt or range varies from twenty miles, in its narrowest part, to fifty and sixty miles in other places. Its average height is about five hundred feet; it is rugged and uneven, and composed chiefly of granite and primary rocks.

The peninsula of Nova Scotia is supposed to contain 9,534,196 acres; and it is estimated that nearly two-thirds of its entire surface is covered by the formation above described. The country is undulating throughout, and abounds with lakes of all shapes and sizes. The scenery is everywhere beautifully picturesque, owing to the great variety of hill and dale, and the numerous rivers and lakes scattered everywhere.

The soil of Nova Scotia varies greatly in quality; some of the uplands are sandy and poor, while the tops of the hills are frequently highly productive. On the Atlantic coast the country is so rocky as to be difficult of cultivation; but, when the stones are removed, the soil

yields excellent crops.

The portion of Nova Scotia best adapted to agricultural pursuits is its northeastern section; which rests upon the sandstones and other rocks of the coal formation. Its most valuable portion is upon the Bay of Fundy, where there are deep and extensive deposites of rich alluvial matter, thrown down by the action of the extraordinary tides of this extensive bay. These deposites have been reclaimed from the sea by means of dikes; and the "diked marshes," as they are termed, are the richest and most wonderfully prolific portions of British North America. Nothing can exceed their enduring fertility and fruitfulness, to which there seems no reasonable limit.

The highest land in Nova Scotia is Ardoise hill, which is only 810

feet above the level of the sea.

The navigation returns of Nova Scotia present the following statement of the ships inward and outward in 1849 and 1850, as the aggregate of all the ports in the colony.

Countries.	Inward in 1849.		Outward in 1849.	
	Ships.	Tons.	Ships.	Tons.
Great Britain British colonies United States Foreign States	176 1,770 2,806 287	75, 843 123, 084 259, 974 26, 685	183 1, 930 2, 606 102	77, 174 148, 777 247, 154 9, 749
Total	5, 039	485, 586	4, 821	482, 854

Seamen: Inward, 34,210; outward, 32,375.

The following is a return of shipping for 1850:

Countries.	Inward.		Outward.	
	Ships.	Tons.	Ships.	Tons.
Great Britain British colonies United States Foreign States	139 1, 963 2, 896 254	65, 864 136, 992 281, 340 25, 509	164 2, 184 2, 595 157	71, 589 167, 915 245, 726 15, 907
Total	5, 255	509, 705	5, 102	501, 237

Seamen: Inward, 34,475; outward, 32,135.

The aggregate value of the imports and exports of Nova Scotia in the years 1849 and 1850 is thus stated:

	In 18	349.	In 18	350.
·4	Imports.	Exports	Imports.	Exports.
Great Britain	\$ 1, 489, 615	\$260,785	\$1,892,020	\$262, 945
West Indies	68, 350	951, 375	73, 115	1, 179, 590
North America	852, 165	420, 140	1, 192, 605	634, 190
Elsewhere	22,035	24,090	214, 955	53, 595
United States	1,764,785	894, 425	1, 612, 575	988, 065
Foreign States	727, 240	253, 920	295, 815	238, 045
Total	4, 924, 190	2, 804, 735	5, 281, 065	3, 356, 430

The following return shows the quantity and value of all articles, the growth, produce, or manufacture of the United States, imported into the colony of Nova Scotia during the year 1850, as also the rate and amount of duty paid thereon:

Articles.	Quantity,	Value.	Rate of duty-ster- ling.	Total duty.
Apples barrels Butter cwt Beef do Crackers do Crackers do Clocks number Clocks do Candles pounds Gandles do Cheese cwt Chocolate pounds Flour barrels Hams cwt Leather (sole) pounds Leather (upper) do Lard cwt Onions do Pork do Rum gallons Sugar (crushed) cwt Sugar (refined) do Tobacco pounds Articles paying 64 per cent Articles paying 10 per cent Articles paying 20 per cent Total	26 6 159 141 9 26, 138 465 107 241 62, 891 183 54, 914 3, 448 3, 448 3, 380 1, 208 3, 330 1, 291 44 37 248, 540	\$632 336 31 1,590 352 180 3,267 232 1,253 25 314,455 1,837 8,008 1,292 3,805 3,021 24,730 968 450 470 46,601 33,653 210,847 13,720 1,621	4s. per barrel	176 22 544 28 133 5 15, 722 413 1, 143 761 755 4, 996 483 111 131 7, 766 841 13, 177 1, 372 323
A VVIII		673, 376		49, 464

The following returns give an abstract of the trade of the province of Nova Scotia during the year 1851:

No. 1.—Return showing the ships and tonnage inward, and the value of imports into the province of Nova Scotia, during the year 1851.

From what countries.	Ve	Value of im-	
	Number.	Tons.	ports.
Great Britain	109	48, 988	\$2, 133, 03
British West Indies	1,249 128	82, 613 . 13, 565	1, 022, 41 40, 59
United States	1,480	209, 304	1, 390, 96
Foreign West Indies Spain	179 12	17, 542 3, 497	757, 56
Colonies of France and Spain	3	231	16,01 2,52
Foreign Europe	3	736	1,52
PortugalChina	2 3	191 487	13, 89
Guernsey and Jersey	4	474	125, 00 21, 60
St. Pierre, Newfoundland	44	3, 183	1, 11
Foreign States	12	1, 291	1, 41
Total	3, 228	382, 102	5, 527, 64

No. 2.—Return showing the ships and tonnage outward, and the value of exports from Nova Scotia, during the year 1851.

To what countries.	Vessels.		Value of ex-
	Number.	Топа.	ports.
Great Britain	75	40, 164	\$142 , 245
British North American colonies	1,258	96, 153	1, 346, 595
British West Indies	355	39, 414	911, 355
Guernsey and Jersey	1	206	13, 200
United States of America	1,433	121, 212	736, 425
Foreign West Indies	104	10,008	304, 080
Manritius	2	469	12, 155
Spain	1	189	8, 26
Batavia	1 1	400	,
Pernambuco	1	203	8,930
Foreign Europe	3	407	16, 460
Brazils and colonies of Spain	5	604	35, 845
South America	ī	283	1,905
French North America	18	928	3, 925
St. Pierre	7	419	925
Total	3, 265	311, 059	3, 542, 310

The imports and exports of Nova Scotia for 1849, 1850, and 1851 are shown comparatively as follows:

	1849.	1850.	1851.
Imports	\$4, 924, 190	\$5, 281, 065	\$5, 527, 640
	2, 804, 735	3, 356, 430	3, 542, 310

The various articles of the growth, produce, and manufacture of the United States imported into Nova Scotia in 1851 were of the estimated value of \$886,940, and they paid provincial duties amounting in the aggregate to \$64,727.

The principal articles of colonial produce, growth, and manufacture exported to the United States of America in 1851 were of the following

description and value:

Articles.	Quantity.	Value.
Coals Fish—Dried cod Mackerel Salmon Herrings Alewives Pickled fish Oil Freestone Gypsum Hides Lumber and plank Oats Potatoes Skins Wool Wood and bark Miscellaneous		\$145, 180 13, 800 290,,225 46, 245 62, 140 3, 875 11, 715 12, 840 28, 145 6, 860 2, 815 2, 650 1, 745 2, 040 38, 875 17, 930
Total		*705, 045

During the year 1851, one hundred and six American vessels, of the aggregate burden of 15,901 tons, entered inward in the various ports of Nova Scotia, of which number 91 vessels, 13,032 tons, cleared again with cargoes for the United States, and the remaining 15 took cargoes for foreign ports.

The number of vessels owned and registered in the province of Nova Scotia, on the 31st December, 1850, is thus stated: 2,791 vessels,

168,392 tons.

The fisheries on the colonial coasts have been prosecuted to a greater extent by the people of Nova Scotia, except Newfoundland, than by those of any other colony. The following table, compiled from official returns, is of some importance at this time to the fishing interests of the United States.

The number of vessels employed in the fisheries of Nova Scotia in 1851 was 812, of the burden of 43,333 tons, manned by 3,681 men, The number of boats engaged was 5,161, manned by 6,713 men. The number of nets and seines employed was 30,154. The catch of the season was as follows:

Dry fish	.196,434	quintals.
Dry fish. Salmon.	. 1,669	barrels.
Shad		
Mackerel	.100,047	44
Herrings	53,200	66
Alewives		
Smoked herring	. 15,409	boxes.

The total value of the above products of the fisheries is stated at \$869,080; to which must be added 189,250 gallons of fish oil, valued at \$71,016. The total value of the fisheries undoubtedly greatly exceeds a million of dollars.

The census taken in this province during the past year (1851) gives the total population at 276,117 souls. In this total are included 1,056 Indians, and 4,908 colored persons.

The number of births in 1850 was 8,120; the number of deaths

2,802; of marriages 1,710.

It appears that there are in the province 1,096 schools, with an aggregate of 31,354 scholars.

The religious denominations are thus classed:

Church of England	36,482
Roman Catholics	
Presbyterians—Kirk of Scotland	
Presbytery of Nova Scotia	
Free Church of Scotland	
Baptists	42,243
Methodists	23,596
Congregationalists	2,639
Universalists	580
Lutherans	4,087
Sandinians	101
Quakers	188
Other denominations	3,791

The whole number of churches in the province is 567. The number of inhabited houses is stated at 41,453; of uninhabited houses 2,028; of houses building 2,347; of stores, barns, and outhouses 52,758.

The probable value of real estate is stated by the census return at

\$32,203,692.

It appears that there are in Nova Scotia no less than 40,012 acres of This is chiefly on the upper part of the Bay of Fundy, and is celebrated for its enduring fertility. It is estimated to be worth, on the average, about \$60 per acre. The quantity of improved upland is stated at 799,310 acres.

The quantity of live	stock is	thus	stated:
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Horses	28,789
Neat cattle	156,857
Milch cows	\$6,856
Sheep	282,180
Swine	51,533

The grain and other crops, in 1850, were as follows:

Wheat	bushels	297,157
Barley	do	196,097
Rye		61,438
Oats		1,384,437
Buckwheat	do	170,301
Indian corn	do	37,475
Hay	tons	287,837
Pease and beans	bushels	21,638
Grass seed	do	3,686
Potatoes	do	1,986,789
Turnips	do	467,127
Other roots		32,325

The products of the dairy, in 1850, are stated at 3,613,890 pounds

of butter and 652,069 pounds of cheese.

There are 1,153 saw-mills in the province, which employ 1,786 men. There are also 398 grist-mills, which employ 437 men. There are, besides, 10 steam-mills, or factories, 237 tanneries, 9 foundries, 81 carding and weaving establishments, 17 breweries and distilleries, and 131 other manufacturing establishments of various kinds.

The whole quantity of coals raised in the province, in 1850, is stated at 114,992 chaldrons. There were 28,603 casks of lime burned and very nearly three millions of bricks manufactured. The quantity of gypsum quarried was 79,795 tons; the quantity of maple sugar made,

110,441 pounds.

THE PORT OF HALIFAX.

Latitude, 44° 39′ north; longitude, 63° 36′ west; magnetic variation, 15° 3′ west; rise and fall of tide, 7 to 9 feet.

It is alleged that the harbor of Halifax has not, perhaps, a superior in any part of the world. It is situate nearly midway between the eastern and western extremities of the peninsula of Nova Scotia, and, being directly open to the Atlantic, its navigation is but rarely impeded by ice. From the Atlantic the harbor extends inland for fifteen miles, terminating in a beautiful land-locked basin, where whole fleets may ride in good anchorage.

The entrance to Halifax harbor is well lighted, and buoys are placed upon all the shoals. A fine, deep channel stretches up behind Halifax, called the Northwest Arm, which renders the site of the city a peninsula. The town is built on the declivity of a hill, which rises gradually from the water's edge; its length is more than two miles, and breadth nearly a mile, with wide streets crossing each other at right angles.

As the port at which the Cunard mail-steamers touch, on their voyages to and from Europe, and as the proposed terminus of the great railway from Quebec to the Atlantic, in connexion with those and other steamers, Halifax bids fair to become a place of very considerable commercial importance.

The nature and extent of its trade and commerce, at the present

time, will be best understood by the tables which follow.

The value of imports and exports at the port of Halifax, in 1850, is thus stated:

Countries.	Value of imports.	Value of exports.
Great Britain (West Indies British colonies British North America (Other colonies United States of America Foreign States	\$1,675,150 44,785 935,200 48,275 1,109,000 267,990	\$72,780 790,150 124,780 18,945 469,000 187,960
Total	4,080,400	1,663,615

The ships inward and outward, in 1850, are thus stated:

		Inv	vard.			Out	ward.	
Countries.	Sailin	g vessels.	Steam	n vessels.	Sailin	g vessels.	Steam	ı vessels.
	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.
Great Britain British colonies	61 587	28,986 36,619	36 42	24,834 7,798	17 674	2,878 51,659	28 43	32,354 8,258
United States Foreign States	259 174	27,518 18,081	35	32,768	169 92	19,273 10,408	39	36,249
Total	1,081	111,204	113	65,400	952	84,218	110	76,861

The following is an exhibit of the various descriptions of merchandise imported into Halifax from the United States in the year 1850, with the value of each description:

Articles.	V	alue.
Ale and porter		\$565
·Agricultural implements		135
Bacon and hams		485
Beef and pork	, -	36,170
Beef and pork		23,670
Beans and pease		715
Brandy		395
Brooms		4,460
Bread and biscuit.		25,505
Bran		3,270
Butter		1,040
Burning fluid		5,280
Corn	ı	21,400
Corn meal		93,660
Cordage		17,085
Cotton manufactures.		54,630
Gocoa		2,755
Candles	1	7,640
Coffee	i	6,620
Drugs and medicines		10,070
Wheat flour		224,050
Rye flour		77,440
Dried fruit		7,370
Fresh fruit		1,410
Glassware		3,255
Hardware		30,420
Hides		4,315
Hemp		4,915
Leather		7,180
Leather manufactures	ł	9,990
Lard		2,385
Onions		2,490
Rice		11,070
Rum		1,020
Sugar		5,290
Soap.		1,455
Tallow		4,780
Tar and pitch	i	6,425
Tobacco		76,785
Tea	[8,280
Vinegar	ĺ	1,405
Wheat		23,935
Miscellaneous.		106,270
Total	,	938,985

The staple exports of the port of Halifax are the various products of the sea fisheries, in which a large number of the mbabitants of Nova Scotia are regularly employed. The extent of this business at Halifax is thus stated:

Return of the quantities of fish and fish oil exported from Halifax in the year 1851.

Comeries	Dried fish.	Mackerel.	Dried fish, Mackerel, Herrings.	Alewives.	Salmon,	10II,	Oil	=	Preserved Smok ed Pickled fish. herrings. cod.	Smok ed herrings.	Pickled cod.
	Quintals.	Barrels.	Barrels.	Barrels.	Tierces. Barrels.	Barrels.	Casks.	Casks. Gallons.	Вохев.	Boxes.	Barrels.
British North American Colonies. British North American Colonies. British West Indies. United States.—British vessels. United States vessels. Foreign West Indies.—British vessels. Kauritus. Karores.—Foreign vessels. Brazil.—Foreign vessels.	5 931 180, 174 251 100 53, 145 8, 666 3, 026 3, 026 3, 026 100 11, 458	2, 204 27, 349 51, 203 6, 313 8, 914 653	6, 345 22, 139 9, 090 975 4, 621	3, 206 926 75	340	1,438 3,472 931 495 70	264 807 8,011 304 50 40 7	29, 148 6, 260 620	118	c ₂	300 361 336 336 336
Total	191,808	96, 650	43, 559	4,227	340	6,412	3, 493	36, 028	238	3, 234	78

The following return exhibits the number of ships, and their tonnage, which entered inward at the port of Halifax during the year 1851, as also the value of imports by such vessels, distinguishing British from foreign. This return furnishes a good general idea of the import trade of Halifax, as at present existing:

From what countries.	Ve	ssels.	Value of	Total value.	
*	Number.	Tons.	British.	Foreign.	
Great Britain	97	53, 920	\$1,482,095	\$ 193, 255	\$1,675,350
British N. American colonies.		33,051	921,710	19, 165	940, 875
British West Indies	101	11,366	45, 075	1, 450	46, 525
United States	264	60,284		938, 985	938, 988
St. Pierre	4	216			ALC.
Foreign West Indies	152	14,224		587, 080	587,080
Spain	9	2, 157		29, 555	29, 555
Portugal	3	337		20,600	20,600
Azores	3	548		2, 470	2, 470
Hong Kong	1	186		48, 425	48, 425
Mexico	1	113			
Holland	1	400		5, 550	5, 550
•					
Total	1, 164	176,802	2,448,880	1,846,535	4, 295, 415

The Coal Trade.

Besides its staple export arising from the fisheries, the province of Nova Scotia also sends abroad a very considerable quantity of bituminous coal.

A notice of the abundant mineral wealth of this colony is given in my former report to the Treasury Department, published by order of the Senate; but some portions of this it may be necessary to repeat at present, in order to point out clearly the existing state of the coal trade of Nova Scotia.

The coal mines at present opened and worked in this colony are four in number. They are as follows:

1st. The Albion mines, near Pictou, on the Gulf of St. Lawrence. 2d and 3d. The Sydney and Bridgeport mines, in Cape Breton. 4th. The Cumberland mines, at the head of the Bay of Fundy.

The mines near Pictou are about eighty miles by water from the western extremity of the strait of Canso, which separates Cape Breton from Nova Scotia. Here there are ten strata of coal; the main coal band is thirty-three feet in thickness, with twenty-four feet of good coal. Out of this only thirteen feet is fit for exportation; the remaining part is valuable for furnaces and forges.

In consequence of a general subsidence of the ground, to the extent of six feet, over all the old workings, new pits have recently been opened at the Pictou mines, which are only 150 feet deep; the main

coal hand being struck at a higher level than in the old pits.

The average cost of mining coals here is thirty cents per chaldron, the various expenses of the mines, engines, &c., increase the cost of coals at the pit mouth to sixty-two and a half cents per ton. The cost of screening, transporting to the loading-ground by railway—a distance of nine miles—with other incidental charges, adds seventy-five cents per ton to the cost of the coals.

The shipping season commences at Pictou about the first of May, and continues until the middle of November, after which the northern

harbors of Nova Scotia are frozen up.

At Pictou, coals are delivered by the single cargo, at three dollars and thirty cents per chaldron. Purchasers of one thousand chaldrons, or more, obtain a deduction of thirty cents per chaldron. The slack, or fine coal, is delivered on board at one dollar and a half per chaldron, with a discount of three per cent. for cash payment.

The average weight of a chaldron of Pictou coals is 3,456 pounds. The average required in the United States is 2,940 pounds the chal-

dron.

One hundred chaldrons of coals, Pictou measure, are equal to 120 chaldrons, Boston measure. The usual freight from Pictou to Boston is \$2 75 per chaldron, Boston measure.

Pictou is in latitude 45° 41' north; longitude 62° 40' west; rise

and fall of tide 4 to 6 feet.

The Sydney coal field occupies the southeast portion of the island of Cape Breton, and is estimated to contain two hundred and fifty miles of workable coal. The thickness of the coal-bed worked at Sydney is six feet. It is delivered on board vessels, after being transported three miles by railway, to the loading-ground, at \$3 60 per chaldron, with the same deduction to large purchasers as at Pictou. This coal, as a domestic fuel, is accounted equal to the best Newcastle; it is soft, close-burning, and highly bituminous.

The Bridgeport mines are fifteen miles from Sydney. The coalseam at these mines is nine feet thick, and contains two thin partings of shale. The coal is of excellent quality, of the same description as

at Sydney, and not at all inferior.

The coals from Cape Breton overrun the Boston measure from 18 to

20 per cent.

Sydney is in latitude 46° 18' north; longitude 60° 9' west; rise and fall of tide 6 feet.

The Cumberland coal mines are on the coast of Chignecto, which forms the northeastern termination of the Bay of Fundy. These mines have been but recently opened. The seam worked is about four and a half feet in thickness. The coal is bituminous, but is alleged to contain more sulphur than any other description in Nova Scotia.

The principal exportation of coals from Nova Scotia and Cape Breton is to ports in Massachusetts and Rhode Island, with a small quantity to New York. Many American vessels in this trade, especially since the change in the navigation laws, obtain freights for Nova Scotia, Newfoundland, the French islands of St. Peter, Prince Edward island, and the New Brunswick ports on the Gulf of St. Lawrence, and load with coals as their return cargo.

The mean price of Sydney and Pictou coal for the chaldron, of 48

oushels, weighing 3,750 (nominally one ton and a quarter) is \$3 10, which is equal to \$2 32 per chaldron of 36 bushels. The freight to Boston is \$2 75 per chaldron; the duty under the tariff of 1846 (thirty per *cent. ad valorem) is seventy cents per chaldron, amounting in all to \$5 77 per chaldon. To this must be added: insurance, two per cent.; and commission, two and a half per cent. The price paid in Boston by actual consumers for this same coal is about eight dollars per chaldron.

Anthracite coal does not exist in any of the colonies, and they bid fair to become consumers of Pennsylvania anthracite, the importation of which has already commenced, to some extent, in New Brunswick for steamboats and foundries. Under liberal arrangements on both sides, the consumption of anthracite coals would greatly increase in the colonies, and even in Nova Scotia, it being for many purposes better fitted and more economical than the bituminous coal of that colony.

The following return shows the quantities of coal, in chaldrons, shipped to the United States from the different mines in Nova Scotia,

in the years 1849 and 1850:

Years.	Pic	tou.	Syd	ney.		gins, erland.)	То	tal.
	Coarse.	Slack.	Coarse.	Slack.	Coarse.	Slack.	Coarse.	Slack.
1849	48, 812	7, 110	12, 090	1, 210	403	•	61, 305	8, 320
1850	51, 436	6, 932	10,796	1,586	722		62, 954	8, 518

The foregoing return was furnished by the Hon. S. Cunard, the general agent for all the mines of Nova Scotia. No return has been received for the year 1851; but Mr. Cunard states that the quantity fell off about twelve thousand chaldrons in that season.

CAPE BRETON.

This valuable island is in shape nearly triangular, its shores indented, with many fine, deep harbors, and broken with innumerable coves and inlets.

Cape Breton is almost separated into two islands by the great inlet called the Bras D'Or, which enters on its east side, facing Newfoundland, by two passages hereafter described, and afterwards spreading out into a magnificent sheet of water, ramifies in the most singular manner throughout the island, rendering every part of its interior easily accessible.

The Bias D'Or (or "Arm of Gold") creates two natural divisions in Cape Breton, which are in striking contrast; the northern portion being high, bold, and steep; while that to the south is low, intersected by water, diversified with moderate elevations, and rises gradually from

its interior shore until it presents abrupt cliffs toward the Atlantic ocean.

The whole area of Cape Breton is estimated at 2,000,000 of acres;

its population somewhat exceeds 50,000 souls.

In the southern division of Cape Breton, the highest land does not exceed 800 feet; but in the northern division the highlands are higher, bolder, and more continuous, terminating at North Cape, which is 1,800 feet in height, and faces Cape Ray on the opposite coast of Newfoundland. Between these two capes, which are 48 miles apart, is the main entrance to the Gulf of and river St. Lawrence—a pass of

great importance.

The Bras D'Or appears to have been an eruption of the ocean, caused by some earthquake or convulsion, which admitted the water within the usual boundary of the coast. This noble sea-water lake is 50 miles in length, and its greatest breadth about 20 miles. The depth of water varies from 12 to 60 fathoms, and it is everywhere secure and navigable. Sea-fisheries of every kind are carried on within the Bras D'Or to a very considerable extent, as also a salmon fishery. Quantities of codfish and herrings are taken on this lake during winter through holes cut in the ice. The entrance to this great sea-lake is divided into two passages by Boulardrie island; the south passage is 23 miles long, and from a quarter of a mile to three miles wide; but it is not navigable for large vessels, owing to a bar at its mouth. The north passage is 25 miles long, from two to three miles wide, with a free navigation, and above 60 fathoms of water. The shores of these entrances are settled by Scotch Highlanders and emigrants from the Hebrides, who prosecute the fisheries in boats with much success. These fisheries are most extensive and valuable, not exceeded in any part of America; but, from their inland position, are at present wholly inaccessible to our citizens, who have never yet participated in them in the least degree.

In several of the large bays connected with the Bras D'Or, the large timber ships from England receive their cargoes at 40 and 60 miles distance from the sea. The timber is of good size, and of excellent

quality.

The rich coal deposites of Cape Breton occupy not less than 120 square miles, all containing available seams for working of bituminous

coal of the best quality.

The extensive and varied fisheries; the rich deposites of the finest coal, with the best iron ore; the superior quality of the timber, and extraordinary facilities and conveniences for ship-building; the rare advantage of inland navigation, bordered by good land for agricultural purposes; the existence also of abundant salt springs, lofty cliffs of the best gypsum, and the finest building stone of all kinds; with the geographical situation of the island as the key of the St. Lawrence, and the position which commands the entire commerce and fisheries of the northeastern portion of North America—all combine to render Cape Breton one of the most important and most desirable possessions of British North America.

The possession of Cape Breton is of the utmost consequence to Great Britain. The naval power of France, it is well known and admitted,

began to decline from the time that nation was driven out of the North

American fisheries by the conquest of Louisburg.

It has been said by Mr. John MacGregor, M. P., late secretary to the Board of Trade, that the possession of Cape Breton would be more valuable to our people, as a nation, than any of the British West India islands; and that if it were once obtained by them as a fishing station, and a position to command the surrounding seas and neighboring coasts, the American navy might safely cope with that of all Europe.

By the treaty of Utrecht, in 1713, France ceded to England the country called "L'Acadie," now known as Nova Scotia and New Brunswick, but reserved to itself the "Isle Royale," since called Cape Bre-In order to maintain their position in America, the French took formal possession of the harbor of Louisburg soon after this treaty, and in 1720 commenced there the construction of the fortress of that name, so well known and celebrated in history. Upon this fortress the French nation expended thirty millions of livres—a very large sum in those days. It was captured in the most gallant and extraordinary manner by the forces of New England, in 1745, but was restored to France by the treaty of Aix-la-Chapelle, in 1747, in return for Madras. It was recaptured by the British and colonial forces in 1758; and after the treaty of 1763, by which the French gave up all their North American possessions to England, the British government demolished the fortifications of Louisburg, at an expense of \$50,000, fearing they might fall into the hands of some hostile power. Since then the famous harbor of Louisburg has been deserted; although previously—during its occupation by the French-it exported no less than 500,000 quintals of cod annually, and six hundred vessels, of all sizes, were employed in its trade and fisheries.

Cape Breton was formally annexed to Nova Scotia, by royal declaration, in 1763; but in 1784, a separate constitution was granted to it, and it remained under the management of a lieutenant governor, council, and assembly until 1820, when it was re-annexed to Nova Scotia.

Owing to the returns of trade for Cape Breton being mixed up with those for Nova Scotia, it is now difficult to obtain an accurate account of the value of its products annually.

The products of the fisheries of Cape Breton, in 1847 and 1848,

were as follows:

1847.—Dried cod	41,364	quintals.
Scalefish, dried	14,948	- 44
Pickled fish—		
Mackerel	17,200	barrels.
Herrings	2,985	66
Salmon	335	44
Other pickled fish	12,399	46
Seal-skins	12,100	in number.
Oil of all kinds		

The estimated value of the foregoing articles was \$302,616.

1848.—Dried cod	32,553	quintals.
Scalefish, dried	6,783	- 66
Pickled fish—		
Mackerel	14,050	barrels.
Herrings	3,700	66
Herrings Salmon		66
Other pickled fish	18,862	66
Seal-skins	2,200	in number.
Oil of all kinds		

The value of the above estimated at \$282,772.

There is reason to believe, however, that the above gives but an imperfect idea of the extent of the fisheries at Cape Breton. It has been ascertained that, from the portion of this island within the strait of Canso, the following quantities of fish were exported in the year §50:

Codfish28,570	quintals.
Herrings 8,750	barrels.
Spring mackerel	**
Fall mackerel	66

No returns can be procured from the northern and western portions of this island, the fish caught near which being generally carried direct to market from the fishing-grounds by the fishermen themselves, without reference to any custom-house. It has been ascertained, however, on good authority, that the quantity of herrings and mackerel caught and cured at Cheticamp, (the western extremity of Cape Breton,) during the season of 1851, was not less than 100,000 barrels.

It is alleged that the banks in the vicinity of Cape Breton are thickly covered with shell-fish, and consequently are the best feeding-grounds for cod found anywhere in those seas; hence, also, the superior quality

of the cod caught and cured there.

The total quantity of coals raised in Cape Breton, and sold during the year 1849, amounted to 24,960 chaldrons (Newcastle measure) of large coal and 11,787 chaldrons of fine coal; of this quantity, 12,090 chaldrons of the large coal and 1,210 chaldrons of fine coal were shipped to the United States in 1849; in 1850 the quantity shipped to the United States was 10,796 chaldrons of large coal and 1,586 chaldrons of fine coal.

The entries and clearances of trading and fishing vessels at Cape Breton in 1850 were as follows:

Inward in 1850.

At Arichat— From England Vessels. Tons. Vessels. Tons. From British colonies 52 3,196 From United States 98 8,105 From Foreign States 5 1,663 Total — 157 12,31

At	Syd	ney—
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From England From British colonies From United States From foreign ports Total	6 216 104	21,017 10.956		
Whole number of vessels inward		•••••	508	47,661

Vessels outward in 1850.

From Arichat—				
	Vessels	Tons.		
To Great Britain				
To British colonies	48	2,961		,
To United States	14	1,283		
To foreign States	4	633		
Total	_	». 	66	4,877
From Sydney—		,		-
To Great Britain	5	837		
To British colonies	217	20,615		
To United States	69	6,883		
To foreign States	48	3,712		
Total			339	31,591
Whale number of words and automatic			405	00.400
Whole number of vessels outward			405	30,468

The value of imports and exports at Cape Breton, in 1850, is thus stated in the official returns made to Halifax:

Imports—

Imports—		
	Arichat.	Sydney.
From Great Britain	\$1,575	\$18,335
From West Indies	1,355	
From British North America	23,585	16,860
From other British colonies	15,695	,
From United States.	43,380	13,645
From foreign States	1,355	1,690
	86,945	5 0,530

The total value of imports into Cape Breton, in 1850, was \$137,475.

Tyrnouta		
Exports— To Great Britain	Arichat	Sydney. \$10,850
To British West Indies		2,745
To British North America	38,620	119,265
To other British colonies To United States	9,650	
To United States.	35,335	44,470
To foreign States	32,475	7,200
	154,480	184,530

Total value of exports in 1850 was \$339,010.

It is believed that the foregoing statements do not give a correct account of the whole import and export trade of Cape Breton, as much is imported and sent away through Halifax, to and from which there is at all times an extensive coasting trade. But sufficient has been stated to show that Cape Breton possesses a very considerable trade, which might be very largely increased with our country under a system of free interchanges, inasmuch as Cape Breton greatly needs, and will always continue to purchase, many products of the United States, the quantity being limited solely by the power of paying for them in the produce of her forests, mines, and fisheries, the exports from which could be increased very considerably.

SABLE ISLAND.

This low, sandy island, the scene of numerous and melancholy shipwrecks, lies directly in the track of vessels bound to or from Europe. It is about eighty-five miles distant from Cape Canso. Its length is about twenty-five miles, by one mile and a quarter in width, shaped like a bow, and diminishing at either end to an accumulation of loose white sand, being little more than a congeries of hard banks of the same. The sum of \$4,000 annually is devoted to keeping a superintendent from Nova Scotia, with a party of men, provided with provisions and other necessaries, for the purpose of relieving shipwrecked mariners, of whatever nation, who may be cast upon its shores.

Of late years it has been found that mackerel of the finest quality can be taken in great abundance, quite close to the shores of Sable island, during the whole of every fishing season; and this fishery is every year becoming of greater importance. Several of our enterprising fishermen have found their way there of late, in schooners of about ninety tons, and

have succeeded very well.

By observations of Captain Bayfield, R. N., the well known marine urveyor, made in the autumn of 1851, the eastern extreme of this sland has been found to be in latitude 43° 59′ north, and longitude 59° 45′ 59″ west. Two miles of the west end of the island have been washed away since 1828. This reduction, and consequent addition to the western bar, is reported to have been in operation since 1811, and seems likely to continue. There has been no material change in the east end of the island within the memory of any one acquainted with it.

The western bar may be safely approached by the lead, from any direction, with common precaution. The length of the northeast bar,

it is said by Captain Bayfield, has been greatly exaggerated; but still, it is a most formidable danger. Its real length is fourteen miles only, instead of twenty-eight, as heretofore reported. For thirteen miles from the land it has six fathoms of water, with a line of heavy breakers in bad weather; in the fourteenth mile there is ten fathoms of water, and not far from the extremity of the bar 170 fathoms, so that a vessel going moderately fast might be on the bar in a few minutes after in vain trying for soundings.

Captain Bayfield has recommended to the government of Nova Scotia to establish a light-house on the east end of this island, and measures

are now in progress for its erection.

Sable island lies eighty miles to the southward of Nova Scotia, and in the immediate vicinity of the gulf-stream. Throughout nearly its whole length of twenty-five miles, Sable island is covered with natural grass and wild pease, sustaining, by its spontaneous production, five

hundred head of wild horses, and many cattle.

The Hon. Mr. Howe, Principal Secretary, of Nova Scotia, visited this island in 1850, and reported favorably as to the extent and value of the fishery upon its coast. The superintendent informed Mr. Howe that, a few days before his arrival, the mackerel crowded the coast in such numbers that they almost pressed each other upon the sands. Mr. Howe himself saw an unbroken school, extending from the landing place for a mile, within good seining distance, besides other schools at various points, indicating the presence, in the surrounding seas, of incalculable wealth.

It is believed that a good boat fishery for cod might be carried on here. Seals are numerous all around the island, being very little disturbed.

Hitherto the government of Nova Scotia, to which this island belongs, has not permitted any fishing establishments to be set up upon it. It has been feared that discipline would not be maintained at the government establishment for the relief of shipwrecked mariners, if persons not under the control of the superintendent were allowed to land upon the island, and that the obligations of humanity might be disregarded by mere voluntary settlers, or that the temptation to plunder the unfortunate might prove too strong to be resisted by such a population when the hand of authority was withdrawn.

The natives of Nantucket,* if permitted, would soon build havens and breakwaters at Sable island, and make what is now but a dreaded sand bank amid the solitudes of the ocean, a cultivated centre of mechanical and maritime industry; and, as population increased, employment would be found for the hardy race which this stern nursery would

foster and train, to draw wealth from the deep.

* A writer in that valuable work, Hunt's Merchants' Magazine, thus describes Nantucket.

which, in many respects, is very similar to Sable island:

[&]quot;NATIVERST—A small crescent of pebbly soil, just lifting itself above the level of the ocean, surrounded by a belt of roaring breakers, and destitute of all shelter from the stormy blasts which sweep over it, there is nothing about it 'but doth suffer a sea change.' Its inhabitants know hardly anything but of the sea and sky. Rocks, mountains, trees, and rivers, and the bright verdure of the earth, are names only to them, which have no particular significance. They read of these as other people read of angels and demi-gods. There may be such things, or there may not. But, dreary and desolate as their island may seem to others, it realizes their ideal of what the world should be; and probably they dream that Paradise is just such another place-a duplicate island, where every wind that blows wafts the spray of the sea in their faces!"

PART VIII.

THE ISLAND COLONY OF NEWFOUNDLAND, INCLUDING LABRADOR.

In order that a correct opinion may be formed as to the natural resources and capabilities of the island of Newfoundland, and the value of its fisheries, it will be necessary to give a brief notice of the geographical position and physical conformation of that island. A brief description will also be given of the Labrador coast, which now forms

part of the government of this colony.

Newfoundland lies on the northeast side of the entrance into the Gult of St. Lawrence. From Canada it is separated by the Gulf; its southwest point approaches Cape Breton within about 46 miles; to the north and northwest are the shores of Labrador, from which it is divided by the Strait of Belleisle; its eastern side is washed by the Atlantic ocean. Its form is somewhat triangular, but without any approach to regularity, each of its sides being broken into numerous bays, harbors, creeks, and estuaries. Its circuit is not much less than one thousand miles. Its width at the widest part between Cape Ray and Cape Bonavista is about 300 miles; its extreme length from Cape Race to Griguet bay is about four hundred and nineteen miles, measured on a curve through the centre of the island.

From the sea, Newfoundland has a wild and sterile appearance, which is anything but inviting. Its general character is that of a rugged, and, for the most part, a barren country. Hills and valleys continually succeed each other, the former never rising into mountains, and the

latter rarely expanding into plains.

The hills are of various characters, forming sometimes long, flat-topped ridges, and being occasionally round and isolated, with sharp peaks and craggy precipices. The valleys also vary from gently sloping depressions to rugged and abrupt ravines. The sea-cliffs are for the most part bold and lofty, with deep water close at their foot. Great boulders, or loose rocks, scattered over the country, increase the general roughness of its appearance and character. This uneven surface is covered by three different kinds of vegetation, forming districts, to which the names of "woods," "marshes," and "barrens," are respectively assigned.

The woods occupy indifferently the sides, and even the summits, of the hills, the valleys, and the lower lands. They are generally found, however, clothing the sides of hills, or the slopes of valleys, or wherever there is any drainage for the surplus water. For the same reason, probably, they occur in greatest abundance in the vicinity of the seacoast, around the lakes, and near the rivers, if the soil and other circum-

stances be also favorable.

The trees of Newfoundland consist principally of pine, spruce, fir, larch, (or hackmatac,) and birch; in some districts the mountain ash,

the alder, the aspen, and a few others, are also found. The character of the timber varies greatly, according to the nature of the sub-soil and the situation. In some parts, where the woods have been undisturbed by the axe, trees of fair girth and height may be found. These, however, are scattered, or occur only in small groups. Most of the wood is of small and stunted growth, consisting chiefly of fir trees, from twenty to thirty feet in height, and about three or four inches in diameter. These commonly grow so close together that their twigs and branches interlace from top to bottom; and lying indiscriminately among them are innumerable old and rotten stumps and branches, or newly-fallen trees. These, with the young shoots and brush-wood,

form a tangled and often impenetrable thicket. Embosomed in the woods, and covering the valleys and lower lands, are found open tracts, which are called "marshes." These marshes are not necessarily low or even level land, but are frequently at a considerable height above the sea, and have often an undulated surface. They are open tracts, covered with moss, sometimes to the depth of several This moss is green, soft, and spongy; it is bound together by straggling grass, and various marsh plants. The surface is very uneven, abounding in little hillocks and holes, the tops of the hillocks having often dry, crisp moss upon them. A boulder or small crag of rock occasionally protrudes, covered with red or white lichens, and here and there is a bank, on which the moss has become dry and yellow. contrast of these colors with the dark velvety green of the wet moss, often gives a peculiarly rich appearance to the marshes. This thick coating of moss is precisely like a great sponge spread over the country. At the melting of the snow in the spring it becomes thoroughly saturated with water, which it long retains, and which every shower of rain continually renews. Numerous small holes and pools of water, and in the lower parts, small sluggish brooks or gulleys, are met with in these tracts; but the extreme wetness of the marshes is due almost entirely to the spongy nature of the moss, the slope of the ground being always nearly sufficient for surface drainage; and when the moss is stripped off, dry ground or bare rock is generally found beneath.

The "barrens" of Newfoundland are those districts which occupy the summits of the hills and ridges, and other elevated and exposed tracts. They are covered with a thin and scrubby vegetation, consisting of berry-bearing plants and dwarf bushes of various sorts. Bare patches of gravel and boulders, and crumbling fragments of rock, are frequently met with upon the "barrens," which generally are altogether destitute of vegetable soil.

These different tracts are none of them of any great extent; woods, marshes, and barrens frequently alternating with each other in the course of a day's journey.

In describing the general features of the country one of the most remarkable must not be omitted, namely, the immense abundance of lakes of all sizes, which are indiscriminately called "ponds." These are found everywhere, over the whole face of the country, not only in the valleys but on the higher lands, and even in the hollows of the summits of the ridges, and the very tops of the hills.

They vary in size from pools of fifty yards in diameter to lakes up-

wards of thirty miles long, and four or five miles across. The number of those which exceed two miles in extent must, on the whole, amount to several hundreds, while those of smaller size are absolutely countless.

Taken in connexion with this remarkable abundance of lakes, the total absence of anything which can be called a navigable river is at first sight quite anomalous. The broken and generally undulated character of the country is no doubt one cause of the absence of large Each pond, or small set of ponds, communicates with a valley of its own, down which it sends an insignificant brook, that pursues the nearest course to the sea. The chief cause, however, both of the vast abundance of ponds and the general scantiness of the brooks, and smallness of the extent of each system of drainage, is to be found in the great coating of moss that is spread over the country. On any great accession of moisture, either from rain or melted snow, the chief portion is absorbed by this large sponge; the remainder fills the numerous ponds to the brink, while only some portion of the latter runs off by the brooks. Great periodical floods, which would sweep out and deepen the river channels, are almost impossible; while the rivers have not power at any time to breach the barriers between them, and unite their waters. In dry weather, when from evaporation and drainage the ponds begin to shrink, they are supplied by the slow and gradual drainage of the marshes, where the water has been kept as in a reservoir, to be given off when required.

The quantity of ground covered by fresh water in Newfoundland has been estimated, by those acquainted with the country, at one-third of the whole island, and this large proportion will not probably be found an exaggeration. The area of Newfoundland is estimated at

23,040,000 acres.

LABRADOR.

Of the coast of Labrador less is known than of the island of Newfoundland, to the government of which it was re-annexed in 1808, having for some time previously been under the jurisdiction of Canada. It may be said to extend from the fiftieth to the sixty-first degree of north latitude, and from longitude 560 west, on the Atlantic, to 78°, on Hudson's bay. It has a seacoast of about 100 miles, and is frequented, during the summer season, by more than 20,000 persons.

This vast country, equal in extent to France, Spain and Germany, has a resident population of between 8,000 and 10,000 souls, including

the Esquimaux and Moravians.

The climate is very severe, and the summer of exceedingly short duration. It is believed that the mean temperature of the year does not exceed the freezing-point. The ice does not usually leave the coast before June; and young ice begins to form again on the pools and sheltered small bays in September, when frosts are very frequent at night. Situate in a severe and gloomy climate, and producing nothing that can support human life, this is one of the most barren and desolate countries in the world. But, as if in compensation for the sterility of the land, the sea in its vicinity teems with fish. There would be little inducement to visit the desolate coast of Labrador but

for its most valuable and prolific fisheries, which excite the enterprise and reward the industry of thousands of hardy adventurers who annu-

ally visit its rugged shores.

In general, the main land does not exceed the height of five hundred feet above the level of the sea, and is often much lower, as are all the islands, excepting Great and Little Mecatina. The main land and islands are of granitic rock, bare of trees, excepting at the heads of bays, where small spruce and birch trees are met with occasionally. When not entirely bare, the main land and islands are covered with moss or scrubby spruce bushes; and there are many ponds of dark bog-water, frequented by water-fowl and flocks of the Labrador curlew.

The main land is broken into inlets and bays, and fringed with islands, rocks, and ledges, which frequently rise abruptly to within a few feet of the surface, from depths so great as to afford no warning by the lead. In some parts, the islands and rocks are so numerous as to form a complete labyrinth, in which nothing but small egging schooners or

shallops can find their way.

But although the navigation is everywhere more or less intricate, yet there are several harbors fit for large vessels, which may be safely

entered, with proper charts and sailing directions.

The Strait of Belleisle, which separates Newfoundland from Labrador, is about fifty miles long, and twelve broad. It is deep, but is not considered a safe passage usually, owing to the strong current which sets through it, and the want of harbors. There are no harbors on that part of the Newfoundland coast which faces this strait; and those on the Labrador coast are not considered safe, except the havens near the northern and southern extremities of the strait.

During the winter months the resident population of Labrador does not exceed eight hundred souls of European descent. Many of the white men have intermarried with the Indians. The few widely-scattered families reside at the establishments for seal and salmon-fishing, and for fur-trading. Seals and salmon are very plentiful; the latter are of a larger and better description than those taken on the coast of

Newfoundland.

The furs of Labrador are very valuable. There are four kinds of foxes; with otters, sables, beavers, lynxes, black and white bears, wolves, deer, (caribou) ermine, hares, and several other small animals, all bearing fur of the best description. The Canadian partridge, and

the ptarmigan, or willow grouse, are also plentiful.

A number of small schooners or shallops, of about twenty-five tons, are employed in what is termed the "egging business." The eggs that are most abundant and most prized are those of the murr; but the eggs of puffins, gannets, gulls, eider ducks, and cormorants, are also collected. Halifax is the principal market for these eggs, but they have been also carried to Boston, and other ports. One vessel of 25 tons is said to have cleared \$800 by this egging business in a favorable season.

THE COD-FISHERY.

In Newfoundland the term "fish" is generally understood to mean codfish, that being the great staple of the island. Every other description of fish is designated by its particular name.

The cod-fishery is either prosecuted in large vessels in the open sea, upon the Grand Bank of Newfoundland, or else in boats or shallops near the coast of the island; and these modes of fishing are respect-

ively designated the "bank fishery," and the "shore fishery."

The Grand Bank is the most extensive sub-marine elevation yet discovered. It is about six hundred miles in length, and in some places five degrees, or two hundred miles, in breadth. The soundings on it are from twerty-five to ninety-five fathoms. The bottom is generally covered with shell-fish. It is frequented by immense shoals of small fish, most of which serve as food for the cod. Where the bottom is principally of sand, and the depth of water about thirty fathoms, cod are found in greatest plenty; on a muddy bottom cod are not numerous. The best fishing grounds on the Grand Bank are between latitude 42° and 46° north.

Those perpetual fogs which hang over the Banks, and hover near the southern and eastern portions of the coast of Newfoundland, are supposed to be caused by the tropical waters, swept onward by the Gulf stream, meeting with the icy waters carried down by the influence of the northerly and westerly winds from the Polar seas. This meeting takes place on the Grand Bank. The difference in the temperature of the opposing currents, and in their accompanying atmospheres, produces both evaporation and condensation, and hence the continual fog.

The cod-fishery on the Grand Bank began a few years after the discovery of Newfoundland. In 1502, mention is made of several Portuguese vessels having commenced this great fishery. In 1517, when the first English fishing vessels appeared on the Banks, there were then on the fishing ground no less than fifty Spanish, French,

and Portuguese ships, engaged in the fisheries.

The great value of this fishery was not fully appreciated by the English until about 1618. In twelve years after, there were no less than one hundred and fifty vessels from Devonshire alone engaged in it. At that period England began to supply the Spanish and Italian markets, and then a rivalry in the fishery sprang up between the English and French. Its importance to England was manifested by the various acts of Parliament which were passed, and the measures adopted for its regulation and protection. Ships of war were sent to convey the British fishing vessels, and protect them while prosecuting the fishery. In 1676, some of the large vessels engaged in the Bank fishery carried twenty guns, eighteen small boats, and from ninety to one hundred men. This arose from the hostile position assumed by France with reference to this fishery. The English fishermen had much annoyance and trouble from those of France; notwithstanding which, the British Bank fishery continued to prosper.

Owing to the confusion created by the French revolution of 1792; their bounties on the Newfoundland fisheries were discontinued, and they immediately fell off greatly. In 1777, no less than 20,000 French

seamen were employed in the Newfoundland fisheries; but that number dwindled down to 3,397 in 1793.

From 1793 to 1814, the British fishery at Newfoundland prospered greatly. The price in foreign markets was very high, and the value of fish exported from Newfoundland in 1814 was estimated at nearly fifteen millions of dollars.

At that time the western and southern "shore" fishery sprung into importance, and offered stronger inducements for its pursuit by the inhabitants of Newfoundland than the Bank fishery. The latter was then chiefly carried on from St. John, and to a limited extent from Bay Bulls, Cape Broyle, Termense, Renews, and Trepassy. It was prosecuted by parties from the west of England, who were the last to abandon it. Their "bankers," as vessels which fish on the Grand Bank are termed, generally carried twelve men, whose catch for the season was about one thousand quintals of cod; yielding, also, about four tons of oil from their livers.

After the peace of 1814, the British Newfoundland fisheries suddenly declined, owing to the competition which sprung up with the French fishermen, and our own citizens engaged in the business. Many of the chief merchants of Newfoundland engaged in the trade, as also numbers of the principal fishermen, were wholly ruined; and it is stated, on good authority, that bills of exchange on England, to the extent of one million of pounds sterling, were returned protested in the years 1815, 1816, and 1817. So great was the extent of the depression in the British fisheries of Newfoundland, that it was at one time proposed to remove the settled population from the island. This, however, was not carried out, temporary measures being adopted to relieve the pressure which bore with such excessive severity upon the staple trade of the country.

The bounties granted by France were higher even then than at present, and were so arranged as to exclude all fish of British catch from the French, Spanish, and Italian markets. The effect of this has been to break up the fishery on the Grand Bank by British vessels, altogether; and that fishery is now prosecuted solely by the vessels of France and of the United States, under the stimulus of bounties, which have never been given to this fishery by the British.

THE SHORE FISHERY.

The inhabitants of Newfoundland prosecute the shore fishery for cod in boats, shallops, and schooners, according to the ability of those who fit them out. In the small boats the fishery is pursued on the coast by the poorer portion of the inhabitants, who generally abandon it for the large-boat fishery so soon as they acquire sufficient means. In the small boats the people are confined to their immediate localities, whether the fishing is good or bad; with the larger boats they can avail themselves of such of the fishing grounds as offer the greatest inducements.

A fair average catch for small boats is from forty to fifty quintals per man for each season; for the large boats, from eighty to one hundred buintals per man. The expense of the large boats is about fifty per

cent. beyond that of the others. In the small boats there are two men only, and sometimes but one; in the large boats, four to six men.

At most of the fishing stations on the coast of Newfoundland the codfishery commences early in June, and by the 10th of August may be said to be over, for, although the people continue it for two months longer, the proceeds sometimes fail to pay even the expenses. The want of other employment is the principal reason why it is not abandoned in August. On some parts of the coast, however, the cod-fishery is pursued with much success during the whole year.

The small boats land their catch every night, when the fish are split and salted on shore. The large boats, when fishing near home, generally land their catch and salt it in the same way; but when at a distance from home they split and salt on board from day to day, until they have completed their fare. Four times the quantity of split fish, as compared with the article when caught, may be stowed in the same

space.

The "shore fishery" is the most productive, both of merchantable

fish and oil.

The cod-fishery being generally the most certain in its results, has hitherto been followed as the staple and prevailing fishery at Newfoundland; while the seal, the herring, the salmon, the mackerel, and the whale fisheries, have been prosecuted but a comparatively short time, and to a limited extent, in those localities where they were first commenced. They are considered of such minor importance (with the exception of the seal-fishery) that no permanent arrangements have yet been made for their development throughout the whole fishing season.

THE HERRING FISHERY.

Great shoals of herrings visit the coasts of Newfoundland in the early part of every season to deposite their spawn, when a sufficient quantity for bait only is taken by the resident fishermen. On the southern and western coasts of Newfoundland, however, herrings are caught to some extent for exportation, but not by any means in such quantities as might be expected, considering their wonderful abundance. The inhabitants do not pursue the herring fishery as a distinct branch of business: so many as are required by themselves for bait in the codfishery, and to supply the French "bankers," appear to be about the extent of the quantity taken in general. It is no uncommon thing on the south and west coasts of Newfoundland for hundreds of barrels of live herrings of good quality to be turned out of the seines in which they are taken, the people not deeming them worthy the salt and the labor of curing.

This fishery might be made almost as productive as that for cod, and perhaps more valuable, by the adoption of an improved system of curing and packing, which would render the fish fit for those markets from

which it is now excluded by reason of being imperfectly cured.

THE SALMON FISHERY.

This is a valuable fishery in Newfoundland, but it is not prosecuted so extensively as it might be, nor are the fish so valuable, when cured,

as they ought to be, from the manner in which they are split and salted. This branch of business, under better management, could be rendered much more extensive and profitable.

THE MACKEREL FISHERY.

Although mackerel are said to abound on the southern shores of Newfoundland, as also north of Cape Ray, and thence up to the Strait of Belleisle, during the summer season, yet this branch of the fisheries is neglected by the residents of the island. They have no outfit for the mackerel fishery whatever, and this excellent fish seems to possess perfect impunity on those coasts of Newfoundland which it frequents, going and returning as it pleases, without the least molestation.

THE WHALE FISHERY.

It is believed that the whale fishery might be much more extensively pursued from Newfoundland than at present, particularly on the western coast, and in the Gulf of St. Lawrence, where it is prosecuted to a limited extent by the hardy fishermen of Gaspé, without competition.

THE SEAL FISHERY.

About fifty years since, the capture of seals on the ice in early spring, which is popularly called "the seal fishery," first began at Newfoundland. It languished, however, until 1825, since which it has gone on increasing, year by year; and when successful, it is the most profitable

business pursued there.

The mode of prosecuting this fishery is as follows: The vessels equipped for the seal fishery are from sixty to one hundred and eighty tons each, with crews of twenty-five to forty-five men; they are always prepared for sea, with the necessary equipment, in March every year. At that season the various sealing crews combine, and by their united efforts cut the vessels out of the ice, in which they have firmly frozen during the winter. The vessels then proceed to the field ice, pushing their way through the openings or working to windward of it, until they meet it, covered with vast herds of seals. The animals are surprised by the seal-hunters while sleeping on the ice, and killed either with firelocks or bludgeons, the latter being the preferable mode, as firing disturbs and frightens the herd. The skins, with the mass of fat which surrounds the bodies, are stripped off together; these are carried to the vessels and packed closely in the hold.

The sealing vessels during storms of snow and sleet, which at that season they must inevitably experience, are exposed to fearful dangers. Many vessels have been crushed to pieces by the tremendous power of vast masses of ice closing in upon them, and in some instances whole crews have perished. Storms which occur during the night, and when the vessel is entangled among heavy ice, are described as truly terrible; yet the hardy Newfoundland seal-hunter is ever anxious to court the

exciting yet perilous adventure.

The vessels having completed their fare, or having failed to do so before the ice becomes scattered, and all but the icebergs has been dissolved by the heat of the advancing summer, return to their several ports; and it sometimes happens that vessels which are successful immediately after falling in with the ice, make two trips in that season.

The fat, or seal-blubber, is separated from the skins, cut into pieces and put into frame-work vats, where it becomes oil simply by exposure to the heat of the sun. In three or four weeks it flows freely; the first which runs off is the virgin or pale oil, and the last the brown oil: under these respective designations they are known as the ordinary seal-oil of commerce.

The seal-skins are spread out and salted in bulk; after which they are packed up in bundles of five each, for shipment to foreign markets.

Besides the mode of seal-hunting on the ice above described, seals are also caught at Newfoundland and Labrador, on the plan first adopted—that is, by setting strong nets across such narrow channels as they are in the habit of passing through, in which they become entangled.

THE SYSTEM OF CARRYING ON THE FISH AND OIL TRADE OF NEWFOUND-LAND.

The persons connected with this business are—

First. The British merchant, or owner, residing in some cases in Great Britain, but in general on the island, who is the prime mover in all the business of the colony.

Second. The middle man, or planter, as he is absurdly termed, probably from all the original English settlements in America having received the official designation of plantations.

Third. The working bee, or fisherman, the bone and sinew of the country, the main-stay of its fisheries, and chief reliance of its trade and commerce.

The merchant finds the ship or vessel, provides nets, line, provisions, and every other requisite for prosecuting the fisheries: these he furnishes to the planter. In some instances the planter owns the vessel, and provides his own outfit. It is his duty in all cases to engage the

crew and to superintend the labor of catching and curing.

In the seal fishery prosecuted in vessels, one-half the profit of the voyage goes to the merchant or owner who provides and equips the vessel, the other half being divided among the crew. Besides the profits on the extra stores or clothing furnished to the crew, the merchant or owner deducts from each of them from six to eight dollars as berthmoney. To this there are occasional exceptions in favor of experienced men, who are either charged less, or get their berths free, in consequence of being able marksmen; and then, by way of distinction, they are called "bow-gumners."

A fishing-servant usually gets from seventy-five to one hundred dollars for the season, commencing with the first of May, and ending with the last of October. These wages are usually paid one-half in money

and one-half in goods.

The Labrador fishermen are in general shipped or hired on shares

or, as they call it, on "half their hand," being fully found by the planter, in every thing necessary to prosecute the fishery during the season. This is also the case, in some instances, with the fishermen engaged for carrying on the shore fishery of Newfoundland.

The following return of the vessels equipped for the seal fishery, from the port of St. John only, and the number of seals taken by them during the last ten years, will give some idea of the extent and value

of this branch of business in Newfoundland:

Year.	No. of vessels.	Aggregate ton- nage.	Men.	No. of seals ta- ken.
1842	74	6,035	2,054	232,423
1843	1:06	9,625	3,177	482,694
1844	121	11 088	3,775	347,904
1845	126	11,863	3,895	302,363
1846	141	13,165	4,470	195,626
1847	95	9,353	3,215	334,430
1848	103	10,046	3,541	389,440
1849	58	5,847	2,170	206,338
1850	71	6,728	2,574	340,075
1851	92	9,200	3,480	382,083

The whole outfit for the seal fishery from the island of Newfoundland in the spring of the year 1851, amounted to 323 vessels, with an aggregate of 29,545 tons, manned by 11,377 men.

The average take of seals in the whole of Newfoundland during the

last seven years, is estimated at 500,000 per annum.

The following is a comparative statement of the quantity and value of the staple articles of produce exported from the island of Newfoundland in the years 1849 and 1850:

	16	349.	1850.		
Articles.	Quantity.	Value.	Quantity.	Value.	
Dried fish quintals Oils gallons	1,175,167 2,282,496	\$2,825,894 1,025,961	1,089,182 2,636,800	\$2,558,251 1,487,654	
Seal-skins No. Salmon tierces	306,072		440,828 4,600	318,480 44,160	
Herringsbarrels	11,471	27,220	19,556	46,939	

The total value of the imports and exports of Newfoundland, in the years 1849, 1850, and 1851, was as follows:

	1849.	1850.	1851.
İmportsExports	\$3,700,912	\$4,163,116	\$4,609,291
	4,207,521	4,683,696	4,276,876

The extent of the foreign commerce of this colony is manifested by the statements which follow, showing the numbers, tonnage, and men of the vessels which entered and cleared at Newfoundland in the years 1850 and 1851.

No. 1.—Vessels inward and outward in 1850.

g		Inward.		Outward.				
Countries.	Number.	Tons.	Men.	Number.	Tons.	Men		
Europe:								
Great Britain	196	28,446	1,662	114	15,597	890		
Guernsey and Jersey	13	1,516	102	4	664	. 28		
Gibraltar	·			8	1,152	50		
Ionian islands	I			2	259	14		
Spain		14,701	870	81	9,371	800		
Portugal	81	10,035	602	76	9,427	647		
Denmark	12	2,002	104					
Germany	30	4,797	252					
Italy		1,795	116	67	9,641	550		
France	1]	89	7		
Madeira		******		2	221	. 14		
America:			Ì					
British North American				!:				
colonies	508	44,853	2,800	542	35,536	3,289		
British West Indies	30	4,189	260	75	10,180	620		
United States	130	15,622	787	41	3,770	241		
Spanish West Indies	66	9,022	631	15	1,915	111		
Danish West Indies				, 1	118	7		
St. Pierre	32	412	95					
Brazils	4	838	50	. 58	11,055	609		
Total	1,220	138,228	8,331	1,087	108,795	7,868		

No. 2.—Vessels inward and outward in 1851.

Countries.		Inward.		Outward.			
	Number.	Tons.	Men.	Number.	Tons.	Men.	
Europe:			· · · · · ·				
Ĝreat Britain	212	29, 994	1,660	148	15, 731	892	
Guernsey and Jersey	11	1,352	95	4	664	42	
Gibraltar				11	1,132	67	
Ionian islands							
Spain	105	14,932	875	50	5,789	422	
Portugal	70	8,825	548	88	11,312	723	
Denmark	6	1,541	73	1	107	7	
Germany	41	6,822	348				
Italy	4	604	37	50	6,998	477	
France							
Madeira				1	62	4	
America:							
British N. American col	524	47, 450	2,911	503	55, 162	3, 172	
British West Indies	29	3,598	230	70	10, 135	603	
United States	131	16, 481	869	33	3, 569	211	
Spanish West Indies	39	4,603	201	18	20, 202	130	
Danish West Indies				2	388	19	
St. Pierre		675	90	51	10, 256	568	
Brazils	7	1,488	75	4	71	19	
Total	1,222	137, 465	8,012	1,034	141,578	7, 356	

The following comparative statement shows the total shipping of Newfoundland inward and outward in 1849, 1850, and 1851:

	1849.		1850.			1851.			
	No.	Tons.	Men.	No.	Tons.	Men.	No.	Tons.	Men.
EnteredCleared	1,156 1,074	132,388 126,643	8,060 7,901	1,220 1,087	138,228 108,795	8,331 7,868	1,222 1,034	137,465 141,578	8,012 7,356

The ships built in Newfoundland during the period of four years, from 1846 to 1850 inclusive, are as follows:

Years,	Vessels.	Tons.
In 1847		854 794 1, 055 1, 497

The population of Newfoundland, by the last census, in 1845, was 96,295 souls. On the 1st of January, 1852, the population was estimated at 125,000, of whom 30,000 were engaged directly in the fisheries. In 1845 the number of fishing boats, &c., was as follows:

Boats from 4 to 15 quintals	8,092
Boats from 15 to 30 quintals	1,025
Boats from 30 quintals upwards	972
Number of cod seines.	879
Number of sealing nets	4,568

The value of the annual produce of the colony of Newfoundland has thus been stated, on an average of four years, ending in 1849, by the British colonial authorities:

949,169 quintals of fish exported	\$2,610,000
4,010 tierces of salmon	60,500
14,475 barrels of herrings	42,500
508,446 seal-skins	254,000
6,200 tons of seal-oil.	850,000
3,990 tons of cod-oil	525,000
Fuel and skins	6,000
Buit annually sold to the French	59,750
Value of agricultural produce	1,011,770
	, ,
Fuel	300,000
Game—venison, partridges, and wild fowl	40,000
Timber, boards, house-stuff, staves, hoops, &c	250,000
Fish, fresh, of all kinds, used by inhabitants	125,000
Fish, salteddodo	175,000
Oil consumed by inhabitants	42,500
m . 1	0.052.000
Total	6,352,020

The average value of property engaged in the fisheries, during the same period, is thus stated:

0.44 1	#1 000 000
341 vessels, engaged in the seal fishery	\$1,023,000
80 vessels, engaged in coasting and cod-fishery	80,000
10,089 boats, engaged in cod-fishery	756,675
Stages, fish-houses, and flakes	125,000
4,568 nets, of all descriptions	68,500
879 cod seines	. 110,000
Vats for making seal-oil	250,000
Fishing implements and casks for liver	150,000
Total	9 563 175

TRADE BETWEEN NEWFOUNDLAND AND THE UNITED STATES.

The following statement furnishes a full account of the quantity and value of the staple products of Newfoundland, exported from that colony to the United States in the years 1849, 1850, and 1851:

Articles.	1849.		1850.		1851.	
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Fish, herrings	16 29 3, 374 21, 428 245	\$1,690 75 60 34,180 56,935 600 2,220	1,860 37 19 1,192 14,119 1,431 4 29	\$4,040 45 25 19,055 31,770 3,445 535 4,355	2, 329 46 18 4, 163 15, 431 619 1 19 750	\$5,510 230 25 41,630 38,495 1,245 4,375
Total		95,700		63, 270		92, 22

The whole of the foregoing articles were exported from Newfoundland to the United States in British vessels only, no other vessels whatsoever being employed in their transport.

The character and extent of the imports into Newfoundland from the

United States is shown thus:

Return of the quantity, value, rate, and amount of duty paid on principal articles, the growth, produce, or manufacture of the United States, imported into the colony of Newfoundland, during the year ending 5th January, 1852.

Articles.	Quantity.	Value.	Rate of duty.	Total duty.
Arrowroot Apothecaries' ware Bacon and hamscwt Beef, saltedbarrels. Beer and aledo Blacking	180 2,098 346	\$2,370 2,007 1,980 24,690 1,906	5 per cent 5 do 5 do 2s. per bbl 10 per cent	\$118 100 232 1,048 190
Bran	29 5,357 2 524,703 3,633 3	70 25,923 3,895 43,987 715	5 per cent. 3d. per cwt. 5 per cent. 2s. per cwt. 10 per cent.	334 190 1,816

S. Doc. 112.

STATEMENT—Continued.

			<u> </u>	1
Articles.	Quantity.	Value.	Rate of duty.	Total duty.
Candles, tallowpounds	47,920	\$5,600	7½ per cent	\$420
Chocolate and cocoa.cwt	23	350	5s. per cwt	28
Clocks and watches		1,620	10 per cent	162
Cheesecwt	555 2	4,775	5s. per cwt	693
Coffee do	682	8,325	oor por o	
Coloring gallons.	148	45	5 per cent	2
Confectionery	110	153	5 do	7
Corn, grain, meal, flour, viz:		100	• • • • • • • • • • • • • • • • • • •	
Indian cornqrs	284	1,650	5 do	82
Indian mealbarrels.	6,293	24,318	6d. per bbl.	I .
Flourdo	87,410	475,330	1s.6d. per bbl	
Oatmeal do	97	500	6d. per bbl	
Peasqrs	36	405	5 per cent.	
Oatsdo	25	100	5 do	
Cotton manufactures	ł	465	5 do	00
Earthen and China ware	1	36	5 do	1
Feathers	24	190	5 do	_
Fish, viz: oysters bushels.	1	100	0 uo	
Fluid		308	5 do	15
Fruit, viz:		900	, ao	19
Applesbarrels.	1,493	3,785	1s.6d.perbbl	559
Raisins, currants.cwt		4,195	5 per cent.	
		760	5 do	l on
Oranges, lemons . barrels . Preserves cwt		50	- 1	0
		10	ا ما	
Ginger, preserved pounds.		510	e 1-	O.E
Glassware		15	1 - 3	-
Grape vines		3,610	1 = 3.	100
Hardware and cutlery	157	397	e 1.	10
Hats dozen.		150	٦.	· ~
Hay and strawtons	20	610] e .1 -	90
Hopsbales.	20	960	5 30	40
Iron manufactures		500	5 do	1 40
Juice, lime and lemon) ~ =	297	1 5	14
Lardewt	1		1 2	1
Leaddo		6 901	-	014
Leather manufactures		6,291	5 do	
Lime bushels.		98	5 do	0.79
Musical instruments	00 104	740	5 do	- [
Molassesgallons.		7,045	1½d. per gall	
Oakumewt.	196 2	1,077	5 per cent	
Onions bushels. Perfumery	30	21	Free	i
Pertumery		25	5 per cent.	, A
Pickles and sauces	1044	40	5 do .	1 400
Pitch and tarbarrels.	1814	3,333	5 do .	. 166

S. Doc. 112.

STATEMENT—Continued.

. Articles.	Quantity.	Value	Rate of duty.	Total duty.
Pork, saltedbarrels. Potatoes and vegeta-	14,480	\$183,085	3s. per bbl	\$10,860
blesbushels.	745	785	Free	
Ricecwt	419 2	1,877		93
Robes, buffalo	60	300		15
Rosinbarrels.	1	31	5 do	1
Salttons	4	55	6d.per ton	
Salæratus		25		
Slops		845	5 do	
Seeds		5 81	Free	
Sausagescwt	20 1	85	5 per cent	4
Soapdo	430	2,000		100
Spirits, viz: rumgallons.	6,122	3,655	9d. per gall	1,147
Stationery		525		
Straw manufactures		35		
Stone, grave	1	. 7	5 do	
Teapounds.	51,390	14,518	3d. per lb	3,211
Tobacco, viz:		} ` `	•	
Leafpounds.	3,358	780	2d. do	139
Manufactures do	329,156	54,535	2d. do	13,714
CigarsNo		925		
Stemscwt	30	75	2s. per cwt	
Tobacco pipes		2	5 per cent	
Tonguesbarrels.	1	12	5 do	
Turpentine, spirits of galls.	118	41	5 do	2
Vinegardo	563	122	5 do	6
Wine, in bottlesdo	2	15	3s. per gall	1
Wood, viz.:				
Staves and caskspack.	4,472	3,950	5 per cent	197
Timbertons		15	1s. 6d. per ton	
Board and plankfeet	10,000	100	2s. 6d. per M.	6
Wooden ware		7,696	5 per cent	384
Woollen manufactures		11,736	5 do	586
Total		954,266		75,665

An examination of the preceding table shows that the principal articles imported into Newfoundland from the United States are pre-

cisely those which give greatest employment to our people.

The value of salted beef imported in 1851 was \$24,690; of bread, \$25,923; of bricks, \$3,895; of butter, \$43,987; of cheese, \$4,775; of Indian corn, \$1,650; of corn meal, \$24,318; of wheat flour, \$475,330; of apples, \$3,785; of pitch and tar, \$3,333; of salted pork, \$183,085;

of rice, \$1,877; of tobacco, \$54,535; of staves, \$3,950; of wooden

wares, \$7,696, and of woollen manufactures, \$11,736.

The total value of articles imported into Newfoundland in 1850, being of the growth, produce, or manufacture of the United States, was \$767,550; the value of such articles imported in 1851 was \$954,266, showing an increase in the latter year of \$186,716.

\$954,266, showing an increase in the latter year of \$186,716.

The following abstracts of the trade of Newfoundland show, comparatively, the relation which the trade with the United States bore to the whole trade of the island with all countries in the year 1851.

The first abstract which follows, shows the number and tonnage of the vessels entered inward in the colony in 1851, with the value of the goods imported in such vessels, distinguishing British from foreign:

Countries from whence entered.	Vessels.		Value of		
Countries from whence entered.	No.	Tons.	British.	Foreign.	Total.
Europe—					
Great Britain	212	29, 994	\$1,410,265	\$132,770	\$1,543,035
Guernsey and Jersey	11	1, 352	57, 155	560	57,715
Spain	105	14,932		62,620	62, 620
Portugal	70	8,825		90, 165	90, 165
Denmark	8	1,541		80,810	80, 810
Germany	41	6,822		399,875	399, 875
Italy	4	604		1,970	1,970
America—					
British North American colonies	524	47,450	847, 060	94,640	939, 700
British West Indies	29	3,598	86, 100		83, 100
United States	131	16,481		998, 735	998,735
Spanish West Indies—					
Cuba	27			139,610	139, 610
Porto Rico	12	1,235		53, 3 00	53, 300
Brazils	7	1,488		95	95
St. Peter's, (French)	43	67 5		1, 450	1,450
Total	1,224	138, 365	2,400,580	2,054,600	4, 455, 180

This table shows, that next to Great Britain and the northern colonies, the largest amount of imports into Newfoundland is from the United States. It exceeded the importations from the neighboring colonies last year by \$59,000, and amounted to nearly one-half of all importations from every foreign country.

The succeeding abstract exhibits the number and tonnage of the vessels cleared outward from Newfoundland in 1851, with the value of the articles exported in such vessels, distinguishing British from foreign:

Countries for which cleared.	Ves	sels.	Value of ex	Total.	
Countries for which closects.	No.	Tons.	British.	Fereign.	
Europe—					
Great Britain	118	15, 731	\$2,040,960	\$98,655	\$2, 139, 613
Guernsey and Jersey	4	664	22, 260	880	23, 140
Gibraltar	11	1, 132			60, 03
Spain	50	5, 789			273, 810
Portugal	-88	f1, 312			575, 360
Denmark	1	107			11,62
Sicily	5	582			31, 380
Italy	50	6,998			357, 370
Madeira	1	62	2,490		2, 49
America—	1				
British North American colonies.	503	55, 162			
British West Indies	70	10, 135			340, 668
United States	33	3,559	99, 720	250	99, 970
Spanish West Indies—					
Cuba	} 18	20, 202			50, 32
Porto Rico			21, 920		21, 920
West Indies, (Danish)		388			
Brazils	51	:10, 256			
St. Peter's, (French)	4	71	230		230
Total	1,013	142, 176	4, 684, 070	117, 275	4, 801, 34

From the preceding statement it will be seen that the exports from Newfoundland to the United States have but a small value, as compared with the articles imported from this country. For the staple products of Newfoundland exported to Spain, Portugal, Italy, and the Brazils, amounting, in the whole, to \$1,657,100, that colony receives a considerable proportion of its payment in ready money, a large share of which finds its way to our country for beef and pork, pitch and tar, breadstuffs and tobacco. The balance of trade being so largely against Newfoundland, in its dealings with us, creates much difficulty in that colony, and forces it to deal more extensively with European countries which purchase its products, than it would do if the trade with us were more nearly upon an equality.

In 1850 the number of vessels which cleared from the colony of Newfoundland was 1,102, of the burden of 129,832 tons. value of the various articles exported in these vessels is thus stated: British, \$4,761,260; foreign, \$117,590; total, \$4,878,850.

The total value of exports in 1851 being \$4,445,180 only, shows a

decrease from the preceding year of \$433,670.

The value of imports at Newfoundland in 1850 was \$4,336,585, and in 1851 was \$4,455,180, being an increase in the value of goods imported in the latter year of \$108,595. There was, therefore, an increased importation, with diminished exports, during the past season, in Newfoundland.

VALUE OF THE LABRADOR TRADE AND FISHERIES.

The exports from Labrador are cod, herring, pickled salmon, fresh salmon, (preserved in tin cases,) seal-skins, cod and seal-oil, furs, and feathers.

No accurate account of the value of the exports of Labrador can be furnished, because there are no custom-houses or public officers of any description on that wild and barren coast; but the following estimate is given as an approximation to the annual value of the exports. It has been carefully made up from the best and most perfect information that can be obtained:

In American vessels	\$480,000
In Nova Scotia vessels	480,000
In Canadian do	144,000
In vessels owned or chartered by English and Jersey	
houses having establishments on the coast	480,000
In vessels owned or chartered by the people of New-	
foundland	1,200,000
Total	*2,784,000

The number of fishermen employed on the Labrador coast every season is from ten to fifteen thousand.

The salmon fisheries average, annually, about thirty thousand tierces, not more than two hundred tierces of which find their way to Newfoundland. The salmon exported from Newfoundland are almost exclusively the catch of that island.

The herring fishery at Labrador is carried on by fishermen from Nova Scotia, Canada, Newfoundland, and the United States, and are

shipped directly from the coast to a market.

Of the seal-oil, seal-skins, furs, and feathers, a very small share finds its way to Newfoundland. Merchants and traders on the coast buy them in exchange for their goods, being less bulky and more valuable than fish. The trading vessels do not buy many cod on the coast, preferring the other commodities named.

Since the treaty of Paris, in 1814, the Labrador fishery has increased more than six-fold, in consequence of the fishermen of Newfoundland being forced by French competition from the fishery on the Grand Bank, and also driven from the fishing grounds, now occupied almost exclusively by the French, between Cape Ray and Cape St. John

John.

The imports of Labrador have been estimated by the authorities of Newfoundland as of the value of \$600,000 per annum.

THE PORT OF ST. JOHN, NEWFOUNDLAND.

The chief town in Newfoundland is its capital and principal seaport, St. John, in latitude 47° 34′ north, longitude 52° 43′ west.

It is the most eastern harbor in North America, only 1,665 miles distant from Galway, on the west coast of Ireland, being the shortest

^{*} The total exports are by some persons estimated at \$4,000,000.

possible distance between the continents of Europe and America. As it lies directly in the track of the Atlantic steamers between the United States and Europe, public attention has naturally been directed towards its harbor as a position of prominent and striking importance on this side the Atlantic. It therefore deserves something more than a passing notice.

It has recently been proposed that St. John should be established as a port of call for at least one line of Atlantic steamers, and that the intelligence brought by this line from the Old World should be thence

transmitted by telegraph to the whole of North America.

The route for the line of the proposed telegraph from St. John to Cape Ray, the southwestern extremity of Newfoundland, was explored during the latter part of the season of 1851, in a very energetic and successful manner, by Mr. Gisborne; and it was found, that beyond the question of expense, there were no unusual obstacles to prevent the construction of the line. From Cape Ray to Cape North, at the northeastern extremity of Cape Breton, the distance is forty-eight miles, across the great entrance to the Gulf of St. Lawrence. It is proposed that telegraphic communication shall be maintained across this passage by a submarine cable, similar to that now successfully in operation between England and France. From Cape North to the town of Sydney, in Cape Breton, the distance is but short; and Sydney already communicates by telegraph with every place in America to which the wires are extended.

Another proposition is to carry the submarine cable at once from Cape Ray to the east cape of Prince Edward island; then traversing a portion of that island, to pass across the straits of Northumberland into New Brunswick, there to connect at the first convenient station

with all the telegraph lines in North America.

It is alleged that a fast steam r, having on board only the small quantity of coals which so short a trip would require, might cross the Atlantic from Galway to St. John in five days; and, if so, information from all parts of Europe could be disseminated over the whole of our Union, even to the Pacific—from Moscow to San Francisco—within six days.

The narpor of St. John is one of the best in all Newfoundland, where good harbors abound. It is formed between two mountains, the eastern

points of which have an entrance called "the Narrows."

From the circumstance of this harbor being only accessible by one large ship at a time, and from the numerous batteries and fortifications erected for its protection, St. John is a place of very considerable strength. There are about twelve fathoms water in mid-channel of the entrance, which, although but one hundred fathoms wide, is only one hundred fathoms long; and, when the Narrows are passed, the harbor trends off to the southwest, affording ample space for shipping, with good anchorage, in perfect shelter.

Some very interesting testimony was taken before the Legislative Assembly of Newfoundland in 1845, with reference to the advantages of St. John as a port of call for Atlantic steamers. Among other witnesses who were examined was Captain John Cousins, an old and

respectable shipmaster, who stated as follows:

"I am a master-mariner, and I have been engaged in the trade forty-four years. I have arrived at Newfoundland from England and foreign countries during each month in the year. The coast of Newfoundland, from Conception bay to Cape Race, is a fine, bold shore; there is not a rock or shoal to take up a vessel in making the land. The harbor of St. John is safe and commodious; it is as fine a harbor as any in the colony; the water is deep enough for a line-of-battle ship. There are no perceptible tides. The light-house on Cape Spear affords a fine light, which can be seen upwards of twenty miles at sea. There is a good harbor light, also.

"The northern ice along the eastern side of Newfoundland is generally to be found in greatest quantities during the months of March and April. The ice in April is softer, more honey-combed, than in March; by April, the great body of field-ice has generally passed to the southward, and is found as far as the bank off Cape Race. I have, as master, made several voyages to Nova Scotia, the coast of which is a very dangerous one, from the shoals that lie off it at a considerable dis-

tance.

"Fogs prevail along the coast of Newfoundland and Nova Scotia chiefly during the months of May, June, and July; they are thickest on the Banks. Those that are acquainted with the navigation of Newfoundland boldly run through the fog for the land, and find the atmosphere clear within a mile, or a mile and a half, of this shore; and the safety and boldness of our coast permit the running close inshore with impanity.

"Between St. John and Cape Race,* a distance of about fifty miles, there are seven harbors, into which vessels of any size could enter easily and lie safely. A straight line from Liverpool to Halifax would cut St. John harbor. From St. John to Cape Clear is 1,700

miles, or thereabouts."

In a representation made very recently by the people of St. John to the imperial government, it is set forth that the geographical position of St. John as the most eastern land on the American side of the Atlantic, situated on a promontory directly in the route between the other North American provinces and the United Kingdom, and distant from Ireland 1,665 miles only, obviously points it out as a port of call for Atlantic steamers. That in addition to its favorable position, the harbor of St. John possesses the advantages of being capacious yet landlocked; of having a depth of water and absence of tides which enable the largest ships that float to enter and leave it at all hours; of being easy of access and free from shoals or hidden dangers, as none exist along the line of bold coast between Cape St. Francis and Cape Race,

[&]quot;A beacon has recently been erected on Cape Race, on the southern coast of Newfoundland, by the imperial government. The total height of the beacon is 65 feet. It stands on the rising ground, 140 feet high, immediately behind Cape Race rock; so that the top of the beacon is at an elevation of 205 feet above the level of the sea. It is of hexagonal shape, 22 feet in diameter at the base, and 11 feet on each face. It tapers upwards to a height of 56 feet, where its diameter is but 2 feet 9 inches, and is then surmounted by a skeleton ball 9 feet in diameter—making the total height 65 feet. The faces of the beacon are painted alternately white and red, and the ball at the top red. The Cape Pine light-house is also painted white and red, but in horizontal alternate stripes; whereas, Cape Race beacon is painted in vertical alternate stripes.

which may everywhere be approached with safety. It is, therefore, said to be manifest that the port of St. John presents facilities and conveniences for steamers which cannot be surpassed in any port in the world. There is said to be less fog on the coast of this part of Newfoundland than on the Atlantic coast of Nova Scotia; and oftentimes when the fog is thick on the Banks of Newfoundland, this coast is free from it.

A good land fall is of great value to the navigator, and it is asserted that none better can be found for trans-Atlantic stemmers than St. John, as the royal mail steamers for Halifax usually endeavor to make the land about thirty miles to the southward of St. John. Hence it is argued that their call at St. John would detract nothing from their

safety, and but little from their despatch.

All history and experience prove that the necessities of commerce seek out the nearest and shortest routes for travel and business. Calais and Dover have been the points of embarkation between England and the continent of Europe ever since the invasion of Britain by Cæsar, and for the sole reason that they are the nearest points between the island of Great Britain and the continent. Where Cæsar crossed the straits of Dover, the submarine telegraph now transmits intelligence from every portion of Europe, on its way to North America. at the map of the world shows that in all time past, the points of islands or continents which approach the nearest have become the highways of their intercourse and commerce. Cape Surium was the point of concentration for the trade of Greece, because it was the nearest point to Egypt. The Appian Way was extended from Capua to Brundusium, on the Adriatic gulf, because that was the nearest good harbor, near the narrowest part of the Adriatic sea, in the most direct line from Rome to Constantinople. In modern times, that most wonderful and costly work, the Britannia tubular bridge across the Menai strait, has been erected at vast expense, simply because it is in the most direct line from London to Dublin and Ireland.

Under the impulse given to communication between Europe and America by the fast ocean steamers now traversing the Atlantic with speed and certainty, and the quickening influence of the electric telegraph, spreading its network of wires over the length and breadth of the continent for the instant communication of intelligence, it is but reasonable to believe that the nearest points between the continents of Europe and America—between the west coast of Ireland and the easternmost point of Newfoundland—will be established as the highway for communication between this country and Europe, to insure the transmission of intelligence in the shortest possible space. Nature appears to have decreed this; and it only remains for man to carry out, in the most advantageous manner, what has been thus decreed.

The legislature of Newfoundland appears to be fully alive to the importance of the geographical position of the harbor of St. John, and firmly impressed with the belief that, by means of steam communication with Ireland, it must be the point from which, without dispute, the earliest and latest intelligence will be transmitted between Europe and America. Influenced by this impression, it has made liberal offers to parties who will undertake to make St. John a port of call for

trans Atlantic steamers, and will establish a line of electric telegraph from thence to Cape Breton, within a given period. Besides other advantages, it has voted to pay a bonus of \$7,500 for each one hundred miles of telegraph line, and \$12,500 per annum for five years to a line of steamers, calling twice each month at the port of St. John.

LIGHT-HOUSES ON THE EASTERN COAST OF NEWFOUNDLAND.

These light-houses are said to be as good as any in the world, and are thus described:

At Cape Bonavista there is a powerful light, revolving every two minutes, red and white alternately; elevation, one hundred and fifty feet above the sea; seen at a distance of thirty miles. This light is in longitude 52° 8′ west, latitude 48° 42′ north.

At Cape Spear, distant from Cape Bonavista seventy-three miles, there is a powerful revolving light, showing a brilliant flash at intervals of one minute; elevation, two hundred and seventy-five feet above the sea; seen in all directions seaward at the distance of thirty miles. In

longitude 52° 37′ 5″ west; latitude 47° 30′ 20″ north.

At Cape Race is fixed a beacon-tower, in longitude 52° 59′ west, latitude 46° 40′ north; distant from Cape Spear fifty-six miles. This beacon-tower is hexagonal, painted in vertical stripes, red and white alternately. It has a skeleton ball at the top, painted red; its height is sixty-five feet, and it stands on ground one hundred and forty feet above the level of the sea.

At Cape Pine, distant from Cape Race thirty-two miles, is a powerful revolving light, three times a minute; its elevation above the sea is three hundred and two feet, and it can be seen from all points to seaward at the distance of thirty miles. Longitude 53° 32′ 12″ west; latitude 46° 37′ 12″ north.

In addition to these lights, there is a good fixed light at the entrance of the harbor of St. John, on the southern head, in longitude 52° 40′ 50″ west, and latitude 47° 33′ 50″ north. In foggy weather a heavy eighteen-pound gun is fired by day every half hour, thus enabling vessels to run at all times for the Narrows, the water being deep and the shore bold. The greatest distance between any two lights on this coast is eighty-eight miles; and as each light can be seen thirty miles in clear weather, there would be but twenty-eight miles to run without seeing a light.

The cost of the best coals for steam purposes, at the port of St.

John, is as follows:

Coals from Sydney, Cape Breton.\$4 90 per ton.Coals from Pictou, Nova Scotia.4 60 do.Coals from Troon and Ardrossan, Scotland.4 96 do.

The duty on coals at Newfoundland is 30 cents per chaldron, equal

to 25 cents per ton, which is included in the above rates.

The trade and commerce of the port of St. John is very considerable, as will be seen by the various statements which follow.

In the years 1850 and 1851 the number of vessels which entered inward at the port of St. John, Newfoundland, was as follows:

Countries from which vessels	1850.			1851.		
entered.	No. of vessels.	Tonnage.	Men.	No. of vessels.	Tonnage.	Men.
Europe:						
Great Britain	131	20, 281	1, 121	138	21, 114	1, 143
Guernsey and Jersey	3	221	14	4	385	23
Spain	65	8,817	521	66	9,635	522
Portugal	46	5,533	330	46	5,515	325
Denmark	5	808	41	4	853	38
Germany	25	4,108	211	37	6,281	318
Italy	12	1,539	95	3	420	27
America:		-				
British N. American colonies	380	36, 552	2, 192	377	37,773	2, 183
British West Indies	26	3, 527	218	26	3, 144	199
United States	105	12,978	729	99	12, 552	645
Spanish West Indies	64	8,796	612	38	4,512	300
Brazils	3	657	36	4	872	51
Total	865	103, 817	6, 120	842	103, 016	5, 774

The number of vessels which cleared from St. John in the same years was as follows:

Countries from which vessels		1850.			1851.	
cleared.	No. of vessels.	Tonnage.	Men.	No. of vessels.	Tonnage.	Меп.
Europe:						
Great Britain	7 8	11, 173	623	82	11, 148	617
Gibraltar	6	809	47	8	733	41
Ionian islands	ĺ	104	6			
Spain	58	7,005	541	34	4,097	303
Portugal	31	3,750	235	57	7, 390	451
Denmark				1	107	7
Italy	46	6, 366	398	31	3,642	252
Sicily	2	352	13	1	147	7
Madeira	2	221	14	1	62	4
France	1	89	7			
America:				1		
British N. American colonies	389	42, 517	2,478	343	41,898	2, 335
British West Indies	62	8, 429	514	61	8,718	514
United States	31	2,971	194	27	2,865	169
Spanish West Indies	15	1,915	111	17	2,099	120
Danish West Indies	1	118	7	2	388	19
St. Pierre	1	95	5			
Brazils	42	8, 149	445	3 8	7,897	429
Total	766	94, 063	5, 638	703	91, 191	5, 268

As furnishing an insight into the general character of the trade and business not only of the port of St. John, but of Newfoundland generally, the following statements of imports and exports at that port are here submitted.

The first is a statement of the quantities of each description of imports at the port of St. John in 1850 and 1851, with its increase or decrease.

Articles.	Weight or measure.	1850.	1851.	Increase.	Decrease.
Bread	cwt.	58, 556	80, 143	21, 587	
Flour	barrels	82, 488	106, 084	23, 596	
Corn-meal	do l	9,716	3, 569		5,847
Pork	do l	19, 253	13, 309		5,944
Beef	do	2,410	2,522	112	
Butter	cwt	12,056	13, 370	1,314	
Rum	puncheons	901	722		269
Molasses	do !	9,856	7, 313		2,543
Brown sugar	cwt	17,571	23, 035	5, 465	
Coffee		888	1,926	1,038	
Manufactured tobacco	do	1,890	3,087	1, 197	
Tea	. pounds	254, 404	359, 334	104, 930	
Soap	boxes	12, 163	11,707		454
Candles		4,598	3, 159		1,439
Salt	tons	19,948	22,570	2,622	
Coals	do	18,025	16,613		1,412
Pitch and tar	barrels	3, 240	3,029		211
Potatoes	do	6, 726	10,856	4, 130	
Oats		24, 225	34, 449	10, 224	
Lumber		3,778	4,263	485	
Oxen and cows		2,718	2,562		156
Sheep		3,541	2,836		708

The following statement exhibits the quantities of the various descriptions of goods exported from the port of St. John in the same years, 1850 and 1851:

Articles.	Weight or measure.	1850.	1851.	Increase.	Decrease
Dried fish:					
To Portugal	anintals	85, 243	160, 905	76, 562	 <i></i>
Spain	do	123, 040	70, 113		52, 937
Italy	do	114,665	68, 533		46, 130
British West Indies	do	117,750	116,731		1,019
Brazil	do	108, 684	114,757	6,073	
British America	do	25, 391	11, 389		14,002
England		6,990	7,425	435	
Scotland	do	5,025	2,623		2, 40
Ireland	do	7,635	7,272	1	365
Other ports	do	69, 258	69, 523	265	
Seal and whale oil	tuns	4,868	5, 411	643	
Cod oil	do	2,447	2, 273		174
Blubber	do	578	265		313
Seal skins:	l i				l
To United Kingdom	. number .	339,075	381, 333	42, 258	
United States and British			-		
America		1,000	750		250
Salmon		1,950	3, 129	1,179	
Herrings	barrels	8, 457	14,079	5,622	

In addition to the quantity of cod mentioned above as having been exported during the year 1851, there were in store at St. John on the 20th January, 1852, no less than 181,000 quintals ready for exportation the coming spring.

The value of the imports into the port of St. John from the United States during the year 1851 was as follows: In British vessels, \$660,685; in American vessels, \$75,650; total value of imports from the United States in 1851, \$736,335.

The following statement comprises an account of the various descriptions of articles imported into the port of St. John from Canada in the years 1850 and 1851, with the quantity and value of each article:

	185	0.	1851.	
Description of articles.	Quantity.	Value.	Quantity.	Value.
Ale and porterbarrels	402	\$3,025	236	\$1,842
Applesbarrels	52	110	107	255
Bacon and hams cwt	122	1,735	46	530
Barley bushels	2.606	1,360	15	22
Beefbarrels	294	2,305	239	1,455
Bread	862	2,275	2,845	7.050
Bricksnumber	8,000	45	, ,,,,	.,,,,,,
Buttercwt	2,479	37,160	3.117	46,600
Candles pounds	6.485	665	3,874	606
Carriagesnumber	2	210	5,014	000
1		100		
Clocksbushels	2,084	2,750	10,226	4,876
	29,180	1 56.400	37,487	185,800
Flour barrels	29,100	40	31,401	100,000
Furniture		50		
Horses hormala	60 199	1,750	461	1,550
Indian mealbarrels		345	401	1,000
Lard pounds			20	15
Lathsnumber		50		2,720
Lumberfeet	224,561	2,2 50	273,028	2,120
Malt	000	495	359	1,710
Oatmeal barrels	660	3,110		1,710
Oats bushels		400	4,149	1,250
Peasebarrels		1,445	486	
Porkbarrels		1,450	2,035	28,250
Potatoes and turnipsbarrels	147	165	520	600
Shingles thousands	1,245	3.115	815	2,05
Soappounds	67,678	1,910	10,000	38
Timber		825	265	1,38
Tobacco pounds	. 565	95	3,146	750
Undefined spiritsgallons	. 586	730		
Vinegargallons	. 441	125		
Wine gallons gallons	. 60	150	20	90
Onionsbarrels			185	329
Stavesnumber	. 173,823	5,670	369,599	8,78
Miscellaneous		940		18
Total		233,250		300,325

The imports into the port of St. John in 1851 from the British West Indies are thus stated: Molasses, 20,063 cwt.; value, \$49,950. Rum, 49,411 gallons; value, \$21,595. Brown sugar, 2,188 cwt.; value, \$10,780. Total value from British West Indies, \$82,325.

From Spain, the imports at St. John in 1851 were as follows: Corks, 11 cwt.; value, \$115. Feathers, 5,936 lbs.; value, \$430. Dried fruit, 36 cwt.; value, \$255. Olive oil, 424 gallons; value, \$210. Salt, 482,504 bushels; value, \$38,655. Wine, 3,325 gallons; value, \$4,700. Total value of imports from Spain in 1851, \$44,365.

From Portugal the imports in 1851 are thus stated:

	Quantity.	Value.
Candles pounds.	1,640	\$150
Corkscwt	48	155
Corkwood	78	130
Dried fruitdo	6	45
Green fruitboxes	282	535
Featherspounds	2,988	205
Olive oilgallons.	1,005	1,010
Onions bushels.	828	1,035
Saltdo	185,854	17,065
Winegallons	33,379	47,880

Total value of imports at St. John, in 1851, from Portugal. 68,210

From Germany, in 1851, the imports at the port of St. John were as follows:

	Quantity.	Value.
Bacon and hamscwt	372	\$4,985
Salt beefdo	296	1,650
Bread and biscuitdo	48,633	198,645
Bricks	796,100	2,495
Buttercwt	3,043	35,615
Cabinet wares		2,260
Cordagecwt	803	6,060
Oatmealbarrels	499	2,315
Pease (round)do	337	2,875
Pease (split)cwt	250	595
Glass and glassware		4,635
Leather manufactures		10,535
Oakumcwt	50	285
Pitch and tarbarrels	266	1,215
Porkcwt	3,173	25,670
Winegallons	32	70
Woollen manufactures		10,295

Total value from Germany in 1851....

Value.

615

Quantity.

47,750

The imports from Denmark in 1851 were as follows:

	cauantity.	value.
Bread and biscuit	9,627	\$35,435
Bricks M.	36	190
Buttercwt	297	4,455
Porkdo	348	2,625
Glassware		115
Cotton manufactures		1,160
Leather		2,025
Wooden wares		690
Woollen manufactures		4,065
Total from Denmark in 1851		50,760
From the Spanish West Indies the imports i	n the year 18	851 were as
follows:	•	
${m From}\ {m Cuba.}$		
	Quantity.	Value.
Coffeecwt	122	\$6 25
Molassesdo	26,586	66,465
Rumgallons.	586	290
Brown sugarcwt	2,775	11,475
<u> </u>		,

From Porto Rico.

Cigars

	Quantity.	Value.
Coffeecwt	20	\$200
Molassesdo	$5,\!403$	13,755
Rumgallons	180	95
Brown sugarcwt	1,269	6,400
Cigars	30,250	375

Total value of imports in 1851 from Spanish West Indies 100,295

The change in the navigation laws of Great Britain came into operation on the 5th January, 1850; and our vessels immediately availed themselves of the new description of freights which the new arrangements offered to them at Newfoundland. It will no doubt be interesting to observe the course of traffic which our vessels have adopted with respect to this colony during the past year, when the business became better understood. The following statement, showing the number of our vessels which arrived at the port of St. John during the year 1851, with the places whence they came, and the nature of the cargoes they brought—as, also, the ports for which they sailed, and the nature of the freight they took away-may therefore prove both interesting and useful, not only to the department, but to commercial men generally:

	Outward cargo.	Dried fish.	do.	do.	In ballast, to receive coals at Sydney mines.	In ballast, to load coals at Picton mines.	Dried cod.	do.	do.	do.	do.	Ballast, (for coals.)	do.	do.
	Sailed for—	Pernambuco.	ф	St. Jago de Cuba	Sydney, B	Pictou	Sicily	Pernambuco	Gibraltat	Pernambuco	ор	Sydney, B	Picton	op.
	Inward cargo.	Pork, flour, and meal	Pork, flour, meal, and bread	Flour, pork, beef, bread, butter, candles, tobacco, corn, cheese, tar, and rice.	Flour, tea, soap, hats, clocks, dried apples, oatmeal, and cheese.	Molasses	Bread, flour, pork, and butter	Ballast	ор.	Flour and corn meal	Flour and pork	Flour, tobacco, and butter	Co:	Molasses
	Where from.	Baltimore	do	do	New York	Matanzas	Boston	фдо	ф	Baltimore	do	Montreal	Sydney	Boston
•	Tonnage.	182	231	621	140	144	147	158	149	167	182	176	176	198
	Vessel's name.	El Dorado	Poultney	Exporter	Charles William	Charles Henry	Avon	Panama	Phenix	Water Witch	El Dorado	T. M. Mayhew	Г. М. Маућеw	Andrew Ring

Except occasionally in the months of February and March, when in severe seasons the ice is on the coast of Newfoundland, the harbor of St. John is always easy of access. In order to show the number of vessels which have entered and cleared at St. John in every month of the year during the years 1848, 1849, and 1850, the following statements have been published in the colony:

Months.		Inward.		Outward.		
	1848.	1849.	1850.	1848.	1849.	1850.
January	35	31	21	28	31	28
February	16	14	26	12	14	20
March	9	19	18	11	11	11
April		64	27	25	32	23
May	102	78	118	94	71	61
June	70	65	86	97	89	122
July		84	81	66	61	73
August	102	115	138	70	75	71
September	116	105	115	122	138	159
October	85	102	82	78	101	95
November		88	72	69	72	64
December		40	44	45	44	42
Total	777	805	828	717	739	769

It is believed that the returns of the trade and commerce of this important colony are more full and correct than ever before presented to Congress. They were compiled from trade returns of the customs, which are annually made up, in a very correct and comprehensive manner—as much so as those of any commercial port on this continent. My thanks are presented to honorable Mr. Little, member of the Provincial Assembly, for much valuable information relating to the trade, resources, and great importance of the fishing interest of this colony; to the honorable Mr. Kent, the collector of the port; and to several other gentlemen.

PART IX.

THE COLONY OF PRINCE EDWARD ISLAND.

Charlotte Town, the capital, is in lat. 46° 14′ north, lon. 63° 8′ west. The island of Prince Edward, formerly called St. John's island, is situated in a deep recess on the western side of the Gulf of St. Lawrence. It is separated from New Brunswick and Nova Scotia by the straits of Northumberland, which, at their narrowest part, are only nine miles wide.

This island is somewhat crescent-shaped; its length, measured on a line through its centre, is about one hundred and thirty miles; its greatest breadth, thirty-four miles; in its narrowest part, near the centre, it is

only four miles wide.

The east point of Prince Edward Island is distant twenty-seven miles from Cape Breton, and one hundred and twenty-five miles from Cape Ray, the nearest point of Newfoundland. Owing to the manner in which this island is intersected by the sea, there is no part of it distant

more than eight miles from tide-water.

The whole surface of the island consists of gentle undulations, never rising to hills, nor sinking to absolutely flat country. The soil is a bright reddish loam, quite free from stone. The entire island is a bed of rich alluvium, elevated from the sea by some convulsion of nature, or else left dry by the gradual recession of the waters of the gulf. There are many beautiful bays and safe harbors; and wherever a brook is not found, good water can always be had within eighteen feet of the surface, by sinking a well.

The soil is admirably adapted for agricultural purposes; it is easily worked, and there is abundance of sea-manure everywhere at hand. There are no stones to impede the plough; in fact, stone is so scarce that such as is required for building purposes is imported from Nova Scotia. Wheat, oats, barley, and potatoes are staple products, and are

produced abundantly.

The area of Prince Edward Island is estimated at 2,134 square miles, equal to 1,365,000 acres. According to a census taken in 1848, the population amounted to 62,678 souls, being in the proportion of one soul to every twenty-two acres of land, or nearly thirty souls to the

square mile.

The climate is neither so cold in winter nor so hot in summer as that of Lower Canada, while it is free from the fogs which at certain seasons envelope portions of the shores of Nova Scotia and Cape Breton. Its climate is very nearly the same as that of Cape Breton, but more equable; the seasons are very nearly the same. It is exceedingly healthy in every part.

This island was discovered by Sebastian Cabot, on St. John's day, (24th June,) 1497, and thence received the name of St. John. The

English took very little notice of this discovery, although made under their own flag; but the Gulf of St. Lawrence was very soon visited by the Basques, Bretons, and Normans, on account of its fisheries.

So early as 1506, Jean Denys, a pilot of Honfleur, published a chart

of the gulf, and of this island.

It continued to be the resort of French fishermen until 1663, when it was leased by authority of the King of France to the Sieur Doublette, and his associates, as a fishing-station. As the French did not encourage settlements near their fishing-stations, any more than the English, very little progress was made in its colonization, until after the treaty of Utrecht, in 1713. Its settlement and agricultural improvement were then encouraged, in order that the island might form a granary for the supply of the fortress of Louisbourg, upon which so much money was expended.

At the taking of Louisbourg, in 1758, it was stipulated in the articles of capitulation, that the French of St. John's island should lay down their arms. The island was shortly after taken possession of by a body of British troops. It then contained ten thousand French inhab-

itants.

After the treaty of Paris, in 1763, by which France ceded this island, with her other North American colonies, to England, the French inhabitants were driven off, as on all occasions they evinced great hostility

to the English.

A survey of this island was completed in 1766, when it was divided into sixty-seven townships, of about twenty thousand acres each. The whole of these townships (with the exception of two, then occupied by a fishing company) were disposed of in London, in one day, by way of lottery, the tickets being distributed among officers of the army and navy who had served in the preceding war, and other persons who had claims upon the government.

In 1770 Prince Edward Island was separated from Nova Scotia, and erected into a separate colony, with a lieutenant governor, an executive and legislative council of nine members, and a house of assembly of fifteen members. It has since continued to enjoy representative institutions; the executive and legislative council has been divided into two distinct councils, and very recently the principles of responsible gov-

ernment have been established in this colony.

The crown has very little land for sale in this colony—merely the residue of the two townships that were not disposed of by the lottery. The price at which small lots are sold is about three dollars per acre. The proprietors rarely sell any of their lands; but when they do, the price is about five dollars per acre. Farm lots are usually leased at twenty cents per acre per annum, for terms of sixty-one and ninety-nine years—the tenant paying all charges and taxes. Some proprietors concede to their tenants the privilege of converting the leasehold into freehold, at twenty years' purchase; but a majority of the landholders do not grant this privilege.

By the census return of 1848, it appears that the number of acres held in fee-simple by occupants, was 280,649; under lease, 330,293 acres; by written demise, 31,312 acres; by verbal agreement, 38,786

acres; and by squatters, 65,434 acres. The quantity of arable land then under cultivation was 215,389 acres.

The crop of 1847 was as follows: wheat, 219,787 bushels; barley, 75,521 bushels; oats, 746,383 bushels; potatoes, 731,575 bushels; turnips, 153,933 bushels; clover-seed, 14,900 pounds; and hay, 45,128 tons. The quantity of potatoes in 1847 was much smaller than in previous years, owing to the prevalence of the potato rot that season.

The stock of the island in 1848 was as follows: horses, 12,845; neat cattle, 49,310; sheep, 92,875; and hogs, 19,683. In that year there were in the island 109 churches, 182 school houses, 13 breweries and distilleries, 116 grist mills, 27 carding mills, 139 saw mills, and 246 threshing machines.

In 1849 there were 88 new vessels built in this colony, of the burden of 15,902 tons; in 1850 there were 93 new vessels built, of the burden of 14,367 tons; in 1851 there were 89 vessels built, of the burden of 15,677 tons. A large proportion of the vessels built on this island are intended expressly for sale in Newfoundland, where they find a ready market, being well suited for sealing and the fisheries.

On the 31st December, 1850, the number of vessels owned and registered in Prince Edward Island was 310, of the burden of 27,932 tons. On the 31st December, 1851, the vessels owned and registered in the island amounted to 323, of the burden of 31,410 tons.

The extent of the import and export trade of this island will be best understood by the following comparative statement of the value of imports and exports in 1849 and 1850:

	18	49.	1850.		
Countries.	Imports.	Exports.	Imports.	Exports.	
United Kingdom	\$192, 030 300, 280 1, 140 82, 580	\$82, 890 174, 940 2, 535 32, 410	\$279, 898 303, 409 565 41, 603	\$84, 996 181, 343 4, 165 55, 385	
Total	576, 040	292, 775	630, 475	325, 989	

The wide difference between the value of imports and that of exports is made up by the sale of new vessels in Great Britain and Newfoundland—an account of which cannot be ascertained.

By a return published at Newfoundland, it appears that in the year 1851, the number of new vessels built at Prince Edward Island, and sold in Newfoundland, was 16, of the aggregate burden of 1,921 tons; and that the sales of such vessels amounted to \$55,316.

The vessels inward and outward at Prince Edward Island in 1850 and 1851 are thus stated:

No. 1.—Vessels entered and cleared in 1850.

	Inw	ard.	Outward.	
Countries.	No.	Tons.	No.	Tons.
Great Britain	18 498 34 7	4, 523 17, 691 2, 578 225	64 518 49 7	12, 454 23, 605 4, 038 225
Total	557	25,017	638	40, 322

Number of seamen inward, 2,082; number outward, 2,301.

No. 2.—Vessels entered and cleared in 1851.

Countries.	In	ward.	Outward.	
Countries.	No.	Tons.	No.	Tons.
Great Britain British colonies United States Foreign States.	18 470 43 2	4, 140 18, 042 2, 724 87	45 488 86 2	10, 951 25, 374 5, 427
Total	533	24, 993	621	41, 823

Number of seamen inward, 2,370; number outward, 3,631.

The value of the exports of this Island colony in 1851 was as follows:

To Great Britain "British North American colonies "United States.	172,304
Total	360,465

The following is a statement of the quantity, rate, and amount of duty paid on all articles the growth, produce, or manufacture of the United States, imported into the colony of Prince Edward Island in 1851.

Articles.	Quantity.	Rate of duty.	Total duty.
Apples and onions	728 barrels	5 per cent	\$122
Stationery	104 packages	do	81
Boots and shoes	154do	10 per cent	206
Breadstuffs	334do	5 per cent	65
Burning fluid	26do		20
Candles and soap	421do	do	82
Corn and cornmeal.	844 bbls. & 1,006 bags.		231
Dry goods Drugs and medi-	128 packages	do	261
cines	59do	do	52
Flour	655 barrels	\$1 25 pr. bbl	818
Hardware	80 packages	5 per cent	142
Leather	15,112 pounds	2 cts. per lb	312
Molasses	42,423 gallons	3 cts. per gall.	1,325
Nails and spikes	182 packages	5 per cent	35
Oranges and lemons.	89do	do	19
Pitch and tar	257 barrels	2 per cent	16
Rice	11 packages	5 per cent	
Spirits	7,800 gallons	$62\frac{1}{2}$ cts. pr. gall.	4,875
Seeds	202 bags	free	
Stoves	282	5 per cent	165
Sugar	349 cwt	\$1 50 per cwt.	
Tea	42,103 pounds	8 cts. per lb	3,505
Tobacco	11,487 do	6do	
Varnish and turpen-			
tine	25 packages	5 per cent	11
Wooden ware		10do	212
Sundries		5do	207
Total			14,020

The total value of the articles on which the above duty of \$14,020 was paid was \$77,858, the whole of which was imported into Prince Edward Island in British vessels, with the exception of merchandise of the value of \$3,200, in an American bottom.

In 1850, the value of articles the growth, produce, and manufacture of the United States, imported into Prince Edward Island, was only

\$42,113, upon which duties were paid amounting to \$6,420.

The wide difference between the value of imports from the United States in 1850 and 1851, arises from the fact that in 1851 the duties on imports were greatly reduced from the rates of the preceding year, and hence the increased value of imports in 1851. With the high rate of

duties in 1850, only \$6,420 was received on articles of American production; while in 1850, with diminished rates, the duties on American

production were increased to \$14,020 in the aggregate.

It is a fair inference, from this state of facts, that Prince Edward Island would take a much larger amount of American goods if the duties were still farther reduced, or if no duties whatsoever were levied on their importation.

The articles exported in 1851 to the United States, of the growth or

produce of the Island, were as follows:

Barley, 17,929 bushels; boards and plank, 12,000 feet; iron, 60 cwt.; cattle, 9 head; firewood, 20 cords; dry fish, 650 quintals; pickled fish, 1,786 barrels; hard wood, 74 tons; horses, 3; hacmatac knees, 2,215; oats, 222,109 bushels; potatoes, 45,942, bushels; turnips, 3,090 bushels; wool, 1,700 pounds.

The value of the foregoing, with the value of sundry other articles not enumerated, amounted together to \$119,236. The value of similar articles exported to the United States in 1850 was only \$55,886.

It is obvious, therefore, that the increased import from the United States in 1851 was coupled with an increased export to the United States in that year.

The following is a statement of the American vessels and their cargoes which entered and cleared at Prince Edward Island in 1851:

Name of vessel.	Tons.	Where from.	Cargo.	Whence cleared.	Cargo.
Denmark	63	Glougester	Flour and meal	Gloucester	Oats
Native American	115			Newburyport	
Iowa	74	United States.	Gin, molasses, and flour.	United States	do
Daniel P. King	73	do	Flour, tea, &c.	do	do
Bold Runner	72	do	do	do	do
Solon	64			do	
Cadmus	115			do	
Bold Runner	72			do	
Diana	70			do	
Linda	86			do	
Commerce	78	do	do	do	do
		1			

The following abstract gives a very satisfactory view of the trade and commerce of this colony for 1851:

Exports.	Amount.
89 vessels, 15,721 tons, at £4 (island currency) per ton	\$251,536
Barley, 30,581 bushels	18, 348
Barley, 30,581 bushels Boards and deals, 1,497,629 feet, and 6,316 pieces	41,346
Beef, 39 barrels	616
Butter, 150 tubs	1, 182
Cattle, 363 head	7,823
Carriages, 5	188
Dry fish, 7,687 quintals	19, 235
Pickled fish, 3,624 barrels	19, 544
Furs, 3 cases	280
Hides, 2 casks	40
Horses, 97	8, 124
Lathwood, 649 cords	871
Oil, 484 gallons	252
Oats, 365,695 bushels	109,708
Oatmeal, 5½ tons—34 sacks, 125½ barrels	1, 143
Oysters, 4,377 bushels	1,243
Pork, 46 barrels	552
Potatoes, 158,569 bushels	47, 568
Spars, 796	1,230
Shingles, 220,772 M	732
Sheep, 245 head	717
Sundries	25,736
Turnips, 27,343 bushels	4,901
Timber, 1,282 pieces; 66 tons scantling; 7,580 tons of timber; 1,865 knees.	42, 060
Wheat, 1,970 bushels	2,400
Wool, 2 bundles	14
-	
	607, 389
Imports, including ship chandlery, which is exported again in the building and rigging of ships, and not estimated in the value of the shipping	475 871
	410 011

PART X.

INTERCOURSE BETWEEN GREAT BRITAIN AND HER NORTH AMERICAN COLONIES.

The industry of the inhabitants of the British North American colonies is principally engaged in agriculture, the fisheries, mines, and forests; in exporting the products of which to the United Kingdom and other British possessions, and to some foreign countries, and importing from thence, in exchange, the various requisites whose growth or manufacture is ill suited to the climate or condition of these possessions, consists their trade, and the great extent of employment it gives to British shipping.

The most important object of industry in British North America, as well as the most striking physical feature of the country, is the forest—lofty, wide-spreading, and apparently illimitable—all unplanted by the hand, and, for a large part, yet untrodden by the foot of man; where, without having planted or sown, he may enter, and reap and gather in what nature for many centuries has been bountifully preparing for his

use.

The importance and value of the North American timber trade to England is so fully established, as to be beyond a doubt. The maritime supremacy of England has been maintained by it, new markets have been created for her manufactures, and a home, with remunerative employment, has been found for her surplus population.

To show the rise and progress of the trade between Great Britain and the North American colonies, the following statements are offered. These have been carefully compiled from Parliamentary returns, and

may be relied upon.

Total official value of goods exported from Great Britain to the British North American colonies in the years mentioned.

Colonies.	1800.	1805.	1810.	1815.
Canada	\$2, 208, 528	\$2,030,313	\$4,701,220	\$8,821,003
Nova Scotia	849, 998	591,000	1,682,937	2, 195, 592
New Brunswick	389, 904	121, 409	464, 220	984, 676
Prince Edward Island			99,043	62, 155
Cape Breton				15,864
Newfoundland	1, 053, 115	1, 213, 565	1, 813, 128	2, 721, 993
Total	4, 501, 545	3, 956, 287	8,760,548	14, 801, 283

As marking the progress and extent of the trade between the United Kingdom and the North American colonies, the following return is presented, showing the ships and tonnage inward and outward in Great Britain and Ireland, to and from those colonies, distinguishing British from foreign, from 1840 to 1850, both years inclusive:

		INWAR	D.		OUTWARD.						
Years.	Br	itish.	Foreign.		Br	itish.	Foreign.				
	Ships.	Tons.	Ships. Tons.		Ships.	Ships. Tons.		Tons.			
840	2, 416	808, 222			2,099	694, 094	7	2,21			
841	2, 461	841, 348			1,937	652, 725	1	38			
842	1,555	541, 451			1, 333	446, 842		16			
843 844	2, 215	771, 905			1,996	710,608	1 2	18 88			
845	2, 284 3, 018	789, 410 1, 090, 224			2,060 2,510	722, 299	î	41			
846		1, 076, 162			2,666	978, 590	7	2,41			
847	2,459	953, 466	9	3,274	2,174	829, 809	29	6, 33			
848	2,279	886, 696		13, 201 1	1,766	668, 087		0,00			
849		turn wantin	g		1,100						
850	2,036	798, 080	170	67,580	1,337	480, 279	43	15, 9			

The official value of the import and export trade between Great Britain and the North American colonies, for the years 1818, 1819, 1820, 1832, 1838, 1843, and 1848, is thus stated:

	1818.	1819.	1820.	1832.	1838.	1843.	1848.
Imports Exports				\$11,779,260 9,544,785			

The amount of tonnage inward and outward between Great Britain and the colonies, in 1800, 1805, and 1815, was as follows:

Colonies.	18	00.	18	05.	181	5. 	
Colomes.	Inward.	Outward.	Inward.	Outward.	Inward.	Outward	
Canada Nova Scotia New Brunswick Prince Edward Island Newfoundland	14, 293 232 6, 072 5, 271	10, 366 4, 149 3, 424 19, 780	15, 076 9, 742 3, 687 1, 121 12, 386	14, 139 7, 934 3, 679 1, 100 29, 669	31, 405 21, 087 72, 790 5, 985 14, 181	27, 839 29, 284 50, 901 3, 107 60, 795	

The following statement, compiled from official returns, exhibits the total tonnage inward in Great Britain from the British North American colonies, as also the total tonnage outward to the same colonies, in 1845 and 1850, distinguishing British from foreign tonnage:

		184	45.		1850.						
	Inward.		Outwa	rd.	Inward. Outv			ard.			
	British.	Foreign.	British.	Foreign.	British.	Foreign.	British.	Foreign.			
England			Tons. 1, 373, 724 226, 482 149, 095 7, 138	230	Tons. 1, 258, 478 178, 574 90, 012 3, 498	3,778 6,129	171, 626	3, 029 16, 082			
Total	52, 354 7	, 045	1,756,439	12, 600	1, 530, 562	82, 085	1, 385, 468	92, 43			

It will be borne in mind that on the 5th of January, 1850, the change in the navigation laws of England came into operation; and the foregoing table, therefore, shows the extent to which foreign tonnage was engaged during that year in the trade between Great Britain and the North American colonies.

The extraordinary increase of the timber trade between Great Britain and her North American colonies is presented in the following statements, which commence with the year 1800. In that year there were imported into Great Britain, from the North American colonies, the following quantities of timber:

34,017 loads of fir timber.

843 do pak timber.

850 masts.

424 (standard hundreds) of deals.

7,214 hundreds staves.

In 1819 the timber trade with North America had greatly increased, as will be perceived by the following statement of timber imported into Great Britain from the colonies in that year:

266,297 loads fir timber.

9,482 loads oak timber.

14,170 masts.

9,868 (standard hundreds) deals.

359 do do battens.

42,998 hundreds staves.

The statements which follow give the quantities and value of the North American timber trade in 1840, 1845, and 1850, distinguishing he quantity entered for home consumption from the whole quantity imported.

Timber imported into the United Kingdom for home consumption.

	1840).	184	15.	1850.			
Description.	From British possessions.	From foreign countries.	From British possessions,	From foreign countries.	From British possessions.	From foreign countries.		
Sawed lumber, sup. feet Square timber, cubic feet.	311,935,800 31,950,700		331,650		74,250			
Timber, sawed or split, cubic feet			24,944,550	17,148,250	23,386,500	18, 365,750		
split, cubic feet.			39,874,500	14,101,4 00	31,150,000	13,696,100		

Total timber imported.

	1840).	184	5.	1850.		
Description.	From British possessions.	From foreign countries.	From British possessions.	From foreign countries.	From British possessions.	From foreign countries.	
Sawed lumber, sup. feet Square timber, cubic feet. Timber, sawed or split,	*313,442,250 *32,336,100	8,557,500	*212,850		*56,100		
cubic feet			*24,691,300	19,526, 350	*21,833,950	17,971,450	
split, cubic feet Staves, cubic feet			*39,315,750 *4,417,350	14,765,650	*31,015,400 *4,129,400	12,513,150	
Official value	\$ 6, 281	, 075	\$7, 93	6,020	\$ 6, 32	6, 340	

Note.—Quantities marked thus * may be considered as wholly from the British North American colonies.

REMARK.—The above tables are compiled from the Annual Trade and Navigation Accounts and the Yearly Treasury Finance Returns.

To those acquainted with the timber trade, these returns will very likely explain themselves; but, in order to present in more precise form the state of the North American timber during the last three years, the following statement, compiled from the returns of the Board of Trade, is submitted:

Colonial timber and deals imported into the United Kingdom, in loads of 50 cubic feet: In 1849, 1,054,246; in 1850, 1,056,987; in 1851, 1.119,000.

In 1847 there was a large reduction in the duties on Baltic and other foreign timber; and in the North American colonies, great apprehensions were entertained that the remission of those duties would be highly injurious, if not almost fatal, to the colonial timber trade.

Such, however, has not proved to be the case. It is true, as will be seen by the following statement, that the quantity of foreign timber imported into Great Britain since the remission of duty, has considerably increased; but the quantity from the North American colonies has likewise increased, as shown in the preceding statement.

Foreign timber and deals imported into the United Kingdom, in loads of 50 cubic feet: In 1849, 578,468; in 1850, 609,692; in 1851, 868,000.

The effect of opening the market to foreign timber by a reduction of duties, and consequently an increased importation, has not, as was greatly feared at the outset, proved injurious to the colonies by diminishing the price of their timber. The increased consumption of timber in England has caused a demand for greater varieties of wood. The use of Baltic timber more extensively than heretofore, has caused a greater demand for colonial wood to be used in connexion with it; while the change in the navigation laws has so reduced freights, that the producer of timber and deals in the North American colonies now receives more for his articles than he ever did before the reduction of the duties.

Besides timber, there are other products of the forest, such as ashes and furs, which form no inconsiderable item in the sum total of colonial

produce imported into the United Kingdom.

The total value of all colonial products to the United Kingdom, including those derived from mines, agriculture, and the fisheries, is fully set forth in the various tables to be found in this report under head of each colony respectively; and to these, reference is made for more

particular information.

England possesses no nursery for seamen at all equal to her North American colonial trade. Besides training her own hardy and burly sons to the dangers and hardships of the sea, that trade fosters and raises up, from among her active, well-built, enduring, and intelligent subjects in the northern colonies, as fine seamen as ever trod a deck, afraid of no danger, and perfectly fitted to sustain any reasonable amount of cold, hardship, and fatigue. The vigor of their frames, their sound constitutions, and the habit of facing severe cold, violent gales, and stormy seas, in a high northern latitude, aided by quick perceptions and ready intelligence, eminently qualify them to navigate her ships to any quarter of the world, either to uphold the honor of their country in fighting her battles upon the seas, or, better still, to extend and enlarge her commerce to every part of the habitable globe.

To her colonial seamen, England may well look with honest pride. Save our own citizens, they have few equals, and none others are their superiors. Whether in war or in peace, these British North American sailors, cradled on a stormy deep, and roughly nursed amid storm and tempest, are in every way fitted to fulfil their duty, and do honor to the

country which claims their allegiance.

PART XI.

TRADE OF THE PRINCIPAL ATLANTIC PORTS OF THE UNITED STATES WITH THE BRITISH NORTH AMERICAN COLONIES BY SEA.

The direct trade by sea between the principal Atlantic seaports of the Union and the British North American colonies has, within a few years, become of such extent, value, and importance, as to demand

more than ordinary attention.

Probably the most remarkable and interesting feature of the age, is the rapid increase and constant activity of the world's commerce. Its great agent and promoter, navigation, to which such enormous annual contributions have latterly been made by England and the United States, is more firmly establishing it on a more extended basis, for still greater and more universal achievements.

The great addition to the navigation interest of the world furnished by the British colonies, is not generally considered; nor is its important and influential character fully understood, save by a small por-

tion of the leading statesmen of Europe and America.

The great maritime resources of the North American colonies, and the advantages of their geographical position for an extended commerce with all mankind, will contribute more effectually to accelerate their onward progress to wealth and power, and unquestionably give them a commanding position in all future commercial developments.

The extent of seacoast and abundance of excellent harbors in these

colonies, is most remarkable.

Commencing at the river St. Croix, the boundary of the United States, there is much coast, and many fine ship harbors, within the Bay of Fundy and the islands it encloses. Next comes the Atlantic coast of Nova Scotia, with its numerous indentations; then the sea-shores of Cape Breton, and its beautiful and extensive interior coast surrounding that large arm of the sea known as the Bras D'Or, or "arm of gold;" next, the eastern or Gulf coast of Nova Scotia and New Brunswick, the Bay of Chaleur, the shores of the whole colony of Prince Edward island—of the Magdalen islands and Anticosti, and all the Labrador coast from Mt. Joly to Davis's straits; in the aggregate, about 3,500 miles of coast-line, everywhere teeming with fish, in greater abundance and excellence than in any other part of the world.

To this great extent of seacoast, admirably provided with large and excellent harbors, must be added the coast of Newfoundland, more than 1,000 miles in extent, whose harbors and fisheries have been known

and constantly frequented for more than three centuries.

The handsome and elaborate map of the Lower Colonies, hereunto appended, was prepared expressly for this report by Mr. Henry F. Perley, of St. John, New Brunswick, a young engineer of much promise. The original surveys, maps, and charts, from which it was prepared

are of the most recent date, and of the highest authority; they were obtained with some trouble and at much expense, from England and from the provinces. These have been carefully collated and compiled, and the result is the present map, which is recommended as one of the best yet presented. It exhibits the peculiar configuration of the Gulf of St. Lawrence, and of the colonies which are washed by its waters, with their infinity of rivers and harbors, and endless variety of creeks, coves, inlets, estuaries, straits, bays, and arms of the sea.

There cannot, perhaps, be found elsewhere the same extent of country possessing in a greater, or even an equal degree, all the requisites for constructing a mercantile marine, nor the like extent of seacoast so profusely furnished with the finest and most capacious harbors, as the

colonies of New Brunswick and Nova Scotia.

A glance at the map at once shows that those colonies are but a mere extension of New England, and that an interchange of their respective products must not only exist, but will of necessity be mutually beneficial, if not absolutely essential to the prosperity of either country. The wise and truthful spirit of commerce will be opposed to any policy, whether British, American, or colonial, that restricts in the slightest degree the entire freedom of commercial intercourse between countries in such immediate proximity, and whose best interests are so closely

The island colonies of Newfoundland and Prince Edward Island, lying contiguous to New Brunswick and Nova Scotia, with similar characteristics in almost every particular, are rapidly becoming convinced of the value of their material interests in connexion with the necessity for a more liberal commercial intercourse with the United States.

Although the tables which follow show that the trade of the four lower colonies is chiefly confined to Boston and New York, yet they also prove that commercial intercourse with them is becoming more general with all the towns and seaports of the Atlantic States, and that Baltimore

and Philadelphia also participate in its benefits.

To encourage the intercourse thus springing into existence and attaining great value from the natural course of trade, and the relative position of the parties with reference to certain natural products of each, would seem to be the bounden duty of the governments of these re-

spective countries.

The first object of every commercial system should be to create and uphold a great commercial marine. Mr. Huskisson laid it down as a principle, that "the only true and durable foundation of a large commercial marine is to be laid in the means of affording it beneficial em-Without such employment—without, in short, extensive commerce, and great capital to sustain and invigorate that commerce, no laws merely protective will avail. Strict navigation laws have not always created a marine. Does not naval and commercial superiority depend on the habits, pursuits, inclinations, associations, and force of character, rather than on any code of laws whatever?"

In spite of the prohibitions and restrictions which yet exist, and serve to prevent the rapid increase of commercial intercourse between the United States and the lower colonies, yet that intercourse has already

attained great value and importance from a very small beginning.

The tonnage inward from the United States, in all the British North American colonies, during the years 1787, 1788, and 1789, amounted on the average of those years to 15,524 tons annually. These were all British vessels.

In 1816, the tonnage inward from the United States was as follows: British, 18,378 tons; American, 75,807 tons: total, 94,185 tons.

The average of the years 1820, 1821, and 1822, was: British, 10,464 tons; American, 66,029 tons: total, 76,593 tons.

In the year 1830, the tonnage inward from the United States was:

British, 20,755 tons; American, 54,633 tons: total, 75,388 tons.

The tonnage inward from the United States in 1831 was: British,

41,367 tons; American, 16,567 tons: total, 57,934 tons.

The decrease of tonnage in this year was owing entirely to commercial restrictions, embarrassing to trade and injurious to both parties. The falling off in tonnage between 1816 and 1831 was no less than 36,251 tons, or more than one-third of the whole inward tonnage.

The absurd and injurious restrictions having been removed, trade and navigation between the colonies and the United States at once revived; and in 1840, the inward tonnage from the United States was as follows: British, 401,676 tons; American, 357,073 tons: total, 758,749 tons.

In the short period of nine years, owing to enlarged freedom of trade, the tonnage between the United States and the colonies increased more than thirteen-fold!

Following up this increase, the tonnage inward from the United States in 1850 was: British, 972,327 tons; American, 994,809 tons:

total, 1,967,066 tons.

The astonishing increase in the nine years which preceded 1840, was followed in the ten years which succeeded that period by another surprising increase, amounting to more than 250 per cent.! And now commences the year 1851.

The first table hereafter presented exhibits the description, quantity, and value of the various articles of domestic production exported from twenty-three Atlantic ports of the United States to the colonies of New Brunswick, Nova Scotia, Newfoundland, and Prince Edward Island, during the year 1851.

Table exhibiting the description, quantity, and value of the various articles of domestic production exported from twenty-three Atlantic ports of the United States to the colonies of New Brunswick, Nova Scotia, Newfoundland, and Prince Edward Island, during the near 1851.

Total.	\$429,669 32,973 492	2,331	334	· · · · · · · · · · · · · · · · · · ·		14,068	i		1,118		12,271	2,634,506
Unenumerated	\$227,121 8,024 20	204	ణ			1,322	297,685	40,216	1,118		12,271	733,896
Вооке зад тар	\$6,169						7,881					14,050
Manufactures o	\$6,762						0.387	95				16,813
Manufactures of	\$1,760						7,127	38		;		9,232
Leather boots and shoes.	\$47,437	96				19	45,561	70				117,583
Cotton manu- factures.	\$95,421 7,238					69	93,835	4,57				201,399
Торавсео.	\$2,243 436 49					77	37,867	72	4,054			210,857
Rice.	\$520 24					ග	10,994	681	300			24,859
Bread.	\$96 42	13						649				800
Corn meal and tye meal.	\$4,722 1,548 120	94			* 1	1,636	41 387	79,016 48,802	9,424			186,749
Beef, hides, and tallow,	\$9,644				:		41,321	34,471	4,213			89,649
Бистет & свеезе.	\$546				:		19,716	25,495 22	1,681			47,460
Pork, bams, and lard,	\$7,998 478 78	127				197		163,052 699				255,202
Flour,	\$19,230 14,216 225	1,857	304			10.815	210,037	320,336 33,692	115,245			725,957
Districts.	PassamaquoddyPortland and Falmouth	Machias	Newport	Fall River	Middletown	Marblehead	::2			Elizabeth City	Edenton	Total value

Here is an export trade of domestic products from some only of our Atlantic seaports to the lower colonies during the past year, amounting to more than two and a half millions of dollars. Yet this is not the whole of the exports from the ports indicated to those colonies, as will be seen by the table which follows, exhibiting the description, quantities, and value of the various articles of foreign production exported from the same twenty-three ports to the four lower colonies in 1851.

Table exhibiting the description, quantities, and value of the various articles of foreign production exported from the ports mentioned to the four lower colonies in 1851.

colonies; and there will be seen by the statement which follows, the nature and value of the various articles imported from the lower colonies into the Atlantic ports of the Union already named during the year 1851: There is exhibited in the preceding table an export trade amounting to \$3,700,100, already existing with the lower

Districts.	Fish.	Coal.	Plaster.	Grind- stones.	Lumber.	Potatoes.	Oats and barley.	Firewood.	Hides and skins.	Sugar.	Unenumer- ated.	Total.
Passamaquoddy	\$4,573 3,369	\$2,945 2,121	\$23, 250 4, 756	\$106	\$1,718 2,020	\$727° 2,062	\$	\$423 1,087	39\$	y	\$73,593 7,163	\$107, 402 22,668
Machias Portract	800	3,548	161	· · · · · · · · · · · · · · · · · · ·	3, 284	28 2, 199	က	1, 392	* * * * * * * * * * * * * * * * * * *		34 837	494 12, 251
Providence Fall River	72	6,468		1,075	6,446	1,825					18	15,886 10,221
Fairfield	492	533 63	1,617	1,378	090 6							4,020
Marblehead	45	7,838	3, 104		2,650	2,326	484	6,012	36	· · · · · · · · · · · · · · · · · · ·	308	6, 774 32, 703
Gloucester	666 376, 916	96, 124	15,215		975	536 52, 894	1,110	5,003 42,475	11,731	\$1,817	2, 969 310, 276	11,259 949,241
New York Philadelphia Baltimore	160, 635 42, 556 24, 246	17, 391 3, 995 179	21, 967	9, 646	10, 799	9, 387 1, 807 520	18, 685			11, 829	11, 342	271, 681 50, 083 25, 962
Winding out Elizabeth City Camden Edenton Savannah	1	1	A 4 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 0 1 1 1 1 1 2 0 1 0 0 5 6 1 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 2 1 4 9 1 2 2 0 9 9 4 1 1 9 1 6 0 1 1 4 6 0 0 1 7 0 7 1 1 1 0 1 1		7	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	* 1		2, 053 610	2,053 610
Total	614, 398	151, 408	71,170	12, 270	31,981	74, 525	62, 170	60,667	11,833	13,646	422, 922	1, 526, 990

To exhibit in a more condensed form, and place the value of this colonial trade in a position to be better understood and appreciated, the following statement is submitted, showing the total value of domestic and foreign exports, and the value of colonial imports, in 1851, deduced from the preceding statements.

Districts.	Ехр	orts.	Total exports.	Imports.	Total exports
Districts.	Domestic.	Foreign.	Total exports.	Imports.	and imports.
Passamaquoddy	\$ 429, 669	\$28,893	\$ 458, 562	\$107,402	\$ 565, 964
Portland and Falmouth	32, 973	1,617	34, 590	22,668	57, 258
Penobscot	492		492	494	492 494
Portsmouth Newport	2, 331	1,820	4, 151	12, 251 1, 432	16, 402 1, 432
Providence	334		334	15,886 $10,221$	16, 220 10, 221
Fairfield				4, 020 128	4, 020 128
New London				2, 122 6, 774	2, 122 6, 774
Salem and Beverly Gloucester	14,068	549	14, 617	32, 703 11, 259	47, 320 11, 259
Boston and Charlestown. New York	876, 183 954, 087	297, 395 732, 202	1, 173, 578 1, 686, 289	949, 241 271, 681	2, 122, 819 1, 957, 970
Philadelphia Baltimore	125, 350 172, 530	3, 118	128, 468 172, 530	50, 083 25, 962	178, 551 198, 492
Wilmington	1, 118		1,118	20, 302	1,118
Elizabeth City	13, 100		,	2,053	
Edenton Savannah	12, 271		12, 271	610	610 12, 271
Total	2, 634, 506	1, 065, 594	3,700,100	1, 526, 990	5, 227, 090

The preceding table shows a trade which has, almost without attracting any portion of public attention, already sprung up, and been extended to the amount of nearly five millions and a quarter of dollars during the next year.

during the past year.

To show further the importance of this same colonial trade in encouraging our mercantile marine, the following table of shipping, inward and outward, during 1851, to and from nine ports of the United States only, and the colonies of New Brunswick, Nova Scotia, Newfoundland, and Prince Edward Island, distinguishing American from British shipping, is also submitted:

This table shows that, during the year 1851, 341,372 tons of shipping entered inward from the lower colonies in nine Atlantic ports only, and that 588,658 tons of shipping cleared outward from those ports for the same colonies; making, in the whole, an aggregate of 930,030 tons of shipping engaged in the colonial trade with nine ports of the Union alone in that year.

In order to show the relative total amount of tonnage inward and outward to and from the principal seaports of the United States and the North American colonies, the following comparative statement has been compiled, showing the whole tonnage inward and outward at the

ports named, in 1851:

Ports.	Inward.	Outward.
New York	1,448,768	1,230,082
Quebec		586,093
Boston	504,501	503,101
New Orleans	328,932	421,566
St. John, N. B.		324,821
Halifax, N. S.		178,079
Philadelphia		140,174
Baltimore		105,789
St. John, Newfoundland		91,191

The foregoing comparative statement will, no doubt, excite some surprise as to the relative amount of shipping and navigation to the principal seaports of North America. It proves, beyond a doubt, and without reference to any other statement comprised in this report, that the British North American colonies have industriously improved the extensive facilities and abundant resources they possess, and have already achieved the high position of being the fourth, if not the third, commercial power, in point of tonnage and navigation, in the world.

The character of colonial vessels has improved within a few years very rapidly, and they are selling very readily in England at remunerating prices, and are found to be as good vessels as are built in the world. The St. John and Quebec ships take the lead in colonial shipping.

PART XII.

REVIEW OF THE PRESENT STATE OF THE DEEP-SEA FISHERIES OF NEW ENGLAND.

PREPARED BY WILLIAM A. WELLMAN, ESQ., ASSISTANT COLLECTOR OF THE PORT OF BOSTON, UNDER THE DIRECTION OF P. GREELY, JR., ESQ., COLLECTOR OF THAT PORT.

The fisheries of Massachusetts, and of the other New England States. were prosecuted successfully, and to a great extent, long prior to the revolutionary war; and it will be seen by the treaty of 1783, that they occupied a prominent point in the negotiations for peace. By the third article of that treaty it was stipulated, "that the people of the United States shall continue to enjoy unmolested the right to take fish of every kind on the Grand Bank, and on all other banks of Newfoundland; also in the Gulf of St. Lawrence, and at all other places in the sea, where the inhabitants of both countries used any time to fish; that the inhabitants of the United States shall have liberty to take fish of any kind on such part of the coast of Newfoundland as the British shall use, (but not to cure or dry them on the island;) and also on the coasts, bays, and creeks of all other of his Britannic Majesty's dominions in America; and that the American fishermen shall have liberty to dry and cure fish in any of the unsettled bays, harbors, and creeks in Nova Scotia, Magdalen islands, and Labrador, so long as the same shall remain unsettled; but so soon as the same, or either of them, shall be settled, it shall not be lawful for the said fishermen to dry or cure fish at such settlement, without a previous agreement for that purpose with the inhabitants, proprietors, or possessors of the ground."

This article secured to us the right of the coast fishery, which, as colonies, we had used and possessed in common with the mother country; and under its provisions the cod fishery recommenced at the close of the war, and continued to increase with the encouragement granted

by the government.

At first a bounty was allowed on the exportation of salted fish, as a drawback of the duty on imported salt; and subsequently, the present system of allowances in money was established to vessels employed for a certain specified time in the Bank and other cod fisheries. The State of Massachusetts alone employed in the cod fishery, from 1786 to 1790, five hundred and forty vessels annually, measuring about twenty thousand tons, manned by three thousand three hundred seamen, and the value of their products in fish exported to Europe and the West Indies exceeded two hundred and forty thousand dollars.

From this period the fisheries increased, and added largely to the trade and commerce of the North, until the beginning of the commer-

cial restrictions which led to the embargo of 1808, and the war with England in 1812. The magnitude of our fisheries from 1790 to 1807, the greatest periods of prosperity, can be realized by those only who have studied this branch of American industry. Beyond what relates to the value of the wealth annually added to the country, and the extensive employment it gives to our native seamen, it has claims on the protection of the government as a nursery for the hardy and daring mariners who have heretofore manned our fleets and fought the battles of our navy. Some idea may be formed of the extent of the fisheries just prior to the mercantile disturbances of 1808, from the fact that, during the year 1806, the value of dried and pickled fish exported exceeded \$2,400,000. From this time to the years 1813 and 1814 it dwindled down to less than \$100,000. Then it was that the war between the United States and England almost annihilated the fisheries; but the navy was recruited, from the vessels laid up, with that strength and daring which enabled it to cope so successfully with its adversa-When peace was concluded, the rights secured, under the treaty of 1783, to carry on the cod fishery on the colonial shores, was refused by the British government. The treaty of Ghent, and the commercial convention subsequently, are both silent on this important subject; and it was not until by the convention of 20th of October, 1818, that we obtained the privilege to take fish "where the inhabitants of both countries," under all former treaties, claimed the right. And by this same convention it will be seen that "the United States renounced any liberty before enjoyed or claimed by them, or their inhabitants, to take, dry, or cure fish, on or within three marine miles of any of the coasts, bays, creeks, or harbors of any of the British dominions of America not included within that part of the southern coast of Newfoundland extending from Cape Ray to the Rameau islands; on the western and northern coast of Newfoundland, from Cape Ray to the Quiepen islands; on the shores of the Magdalen islands; and also on the coasts, bays, harbors, and creeks, from Mount Jolly, on the south of Labrador, to and through the straits of Rellisle, and thence northerly along the coast."

We have, by this agreement, the liberty to dry and cure fish in any of the unsettled bays, &c.; and when settled, with the grant of the proprietors of the ground. Some of our vessels have attempted to carry on the fishery as they had been in the habit of doing; but the prescribed limits of three miles from the shore the imperial government decided should be measured from the headlands, and not from the interior of the bays, and excluded our vessels from the passage or strait of Canso, and denied our right to land on the Magdalen islands; thus driving off the American fishermen from the usual fishing grounds,

and in many instances seizing and confiscating their vessels.

These proceedings have naturally excited much ill feeling, especially with those who have for so long a time resorted to those shores; and

these onerous restrictions are still in full force.

The advantages thus secured to the colonial fishermen must be apparent; for while our fishermen are compelled to go out to the banks in large vessels, fitted at great expense, and with crews averaging nine men to every schooner of ninety tons burden, and extending their

voyages for many weeks, the colonists carry on their fishing entirely in small boats, with perhaps not more than two men in each, who return to their shores at the close of each day's work, and land and cure their fish, which at the close of the summer are laden on board their ships for a foreign market. Our vessels return to our ports, when laden with fish, to wash out, dry and cure their "fares," and they are necessarily much behind their more favored competitors in seeking a market for the produce of their toilsome labors of the fishing season.

In consequence of these unequal privileges, and the change of policy of our government with regard to a reduction of duties, from specific rates to a uniform ad valorem rate of twenty per centum on the foreign cost of imported fish, our colonial competitors now supply our own markets, as they did formerly the principal markets of Catholic Europe and the West Indies. And not only our own markets are flooded with foreign-caught fish for consumption and for transportation to other. American markets, but the Atlantic ports, since the year 1846, have become depots of vast quantities of dry and pickled fish for exportation to foreign countries.

Prior to the enactments of the tariff law of December, 1846, and the warehousing act of August of that year, no drawback was allowed on foreign dried and pickled fish, and other salted provisions, or fishoil; and so far as relates to the drawback of the duties *paid* on said articles, the prohibition of the 4th section of the act of April 27, 1816, is presumed to be in force. But its provisions are entirely nullified by the operations of the warehousing act, which allows foreign fish to be imported, and entered in bond, and exported thence without the payment

of any duties.

By the statement marked No. 1, appended hereto, of the imports of fish into this port, from 1821 to 1851, it will appear that during the first-named year only six quintals of dry fish and eighty-seven barrels of pickled fish were imported; and that, during the first fiscal year after the passage of the tariff of 1846, nearly fourteen thousand quintals of dry fish and forty-two thousand barrels of pickled fish were imported; the foreign cost of which was a fraction short of \$200,000. Statement No. 2 exhibits the exports from 1843 to 1851, by which it appears that in 1843, 1844, 1845, and 1846, not any foreign-caught fish was exported; and that the value of the exports of American fisheries averaged half a million of doll irs annually. The same statement shows, that from 1847 to 1851, there were exported from this port 63,816 quintals of dry fish, and 92,524 barrels of pickled fish, all of which were entered under the provisions of the warehouse act, and consequently exported without paying any duties.

These facts most strikingly illustrate the hard lot of our fishermen, who are denied equal competition on the fishing grounds, and are likewise deprived of the discrimination in their favor, extended to them for more than half a century, by the general government; consequently, the results of their adventures are diminished from year to year, as the home markets, as well as the foreign markets, are being supplied by

foreigners with foreign-caught fish.

Statement No. 3 exhibits the quantity and value of dry fish imported

and warehoused for the fiscal years 1847 to 1851, inclusive, and the disposition made of the same.

Statement No. 4 shows the same for pickled fish.

By the first it will be seen that twenty-seven thirty-fourth parts of the whole importation were exported; and by the second, that fifty pet cent. of the imports were shipped out of the country, to the exclusion of American fish. These facts are so very striking, that comment is deemed unnecessary.

tatements Nos. 5, 6, and 7, exhibit the quantity and value of each and of fish imported into the United States from 1843 to 1850 inclusive, and also the exports for the same years, of both foreign-caught and American fisheries. In the table No. 5, the increase of imports will sufficiently appear; and I have to call your particular attention to table No. 6, in which will be seen that in 1843 no foreign dry fish was exported from any port in the United States, and only one hundred and three barrels of pickled fish; and even down to 1846, the small amount of ten quintals only were exported. The following year, 1847, thirty-five thousand quintals of dry and fourteen thousand barrels of pickled fish were exported, and the annual exports have gone on increasing from that time to the present; the quantity of pickled fish for 1850 being over fif y-nine thousand barrels. Table No. 7, shows the quantity and value of American-caught fish exported to all countries for the same years.

I also append table No. 8, which shows the whole quantity of pickled fish inspected at the various fishing towns in Massachusetts from 1838 to 1850 inclusive. This document is compiled to exhibit the magnitude of this branch of the fisheries in this Commonwealth, and the interest Massachusetts citizens have in the proper regulation of the fisheries.

I also append hereto statement No. 9, of the tonnage of vessels employed in the fisheries of the United States for the years 1843 to 1850 inclusive, designating the tonnage employed in the cod fishery, mackerel fishery, and of vessels under twenty tons burden in the cod fishery, and also register tonnage in the whale fishery, together with the aggregate tonnage of the whole country for each period, by which a comparison can be made, at a glance, of the relative tonnage in each employment, with the entire tonnage of the United States.

In the year 1815, the year after the termination of the late war with Great Britain, the fishing tonnage of the United States did not exceed fifteen thousand tons; in 1835, twenty years afterwards, it reached one hundred and fourteen thousand tons; in 1845 it was two hundred and eighty-seven thousand tons; and from 1846 to 1850, it increased about

nine thousand tons only, including the whale fishery.

Although the cod and mackerel fisheries were each regarded a trade or employment within the true intent and meaning of the 32d section of the act of 1793, the authority to issue licenses for the mackerel fishery was first granted by the act of Congress of 24th of May, 1828, by which it was proposed to keep the two employments distinct. But every year's returns show that vessels so licensed have been engaged in catching cod fish; and the owners of such vessels have in many districts obtained the bounty allowed to vessels in the cod fishery, by de-

ducting the time employed in mackerel fishing, if the time required for bounty was otherwise made out between the last day of February and the last day of November, in the year employed. The consequence has been, that within the customary range of a fishing voyage both cod and mackerel have been taken, without regard to the tenor of the license, and the collectors generally have paid the full bounty allowed by law to those employed exclusively in the cod fishery. It would therefore appear from the legal history of the fishing bounties and allowances, and from the constructions and understanding of them by the various officers whose duty it is to execute them, that the whole system requires The regulations for dividing the proceeds of the fishing voyages, instead of paying monthly wages to the crew, are too frequently evaded by a large number of vessels; and notwithstanding all the vigilance of the officers of the revenue, it is quite doubtful if the actual fishermen now derive much if any benefit from the large sums annually paid out of the treasury for fishing bounties. I regard it of great importance to cherish this branch of industry, and would not recommend that anything should be adopted which would impair its prosperity; but I am so strongly impressed with the conviction that those most interested in the business would be benefited by a more thorough supervision of bounty claims, that I do not hesitate to urge its consideration upon the department.

The second act passed by Congress after the establishment of government—July 4th, 1789—allowed a bounty on dried and on pickled fish, and on salted provisions, exported to any foreign country; and this act continued in force, with the modifications contained in the acts of August 4th and the 10th of August, 1790; of the 18th of February and 8th of July, 1792; 2d of March, 1799; 12th of April, 1800; and finally repealed by the abolition of the salt duty, March 3d, 1807. From 1807 to July 29th, 1813, there were no bounties or allowances to fishing vessels. This last act restored the fishing bounties without granting any allowance or drawback on the exportation of salted beef and pork; and the rates allowed were increased by the act of March 3d, 1819, according

to which all payments are now made.

I have thus summarily traced the history of legislation in regard to this subject, in order to show the share of public attention given to it, and as preparatory to giving a comparative view of the sums paid by

government as bounties under the various acts of Congress.

It appears that for the year ending December 31st, 1791, the sum of \$29,682 11 was paid as bounties on salted provisions and pickled fish, but nothing was paid to vessels employed in the fisheries prior to 1793, when the sum paid was nearly \$73,000. For the year 1806, the sum of \$37,000 was paid on salted provisions, &c., and \$163,000 to vessels employed in the fisheries, making a total of about \$200,000. During the years 1812, '13, and '14, no payments were made. In 1815, only \$1,800 were paid; but in 1820, the first year after the operation of the act of 1819, the sum paid amounted to \$209,000. The amount now paid annually is not far from \$320,000. By the abstract herewith, number 10, it will be seen that at this port alone there have been paid more than two millions of dellars for bounties since the year 1841. The sums paid to vessels licensed at Boston I have separated

from the amounts paid for drafts drawn by collectors of other districts, designating the particulars and the aggregates for each year and for the whole period. It will be seen, likewise, that while the allowances have continued to decrease at Boston, at almost every other place they have increased. At this port, for several years past, an inspector has been detailed at the commencement of the fishing season, whose whole duty it is to look after vessels engaged in the fisheries, and to note, from day to day, every vessel in port, and all the particulars relating to her business, and at the close of the season the facts collated are communicated in detail to the collectors of the respective ports whence licenses were granted. Under the instructions of the department of February 22d, 1842, a certificate has been required previously to the vessel's departure, setting forth her seaworthiness and a description of fishing gear, &c., and such a certificate has been regarded here as a necessary prerequisite to the obtaining the bounty. The journal of the vessel, to be sworn to by the master, has also been required, as directed by instructions of 22d of December, 1848; and the last circular on this subject, of September 17, 1851, as modified by circular of December 11, 1851, will be strictly enforced, and applied in the liquidation of all claims for the bounty during the past season.

If time permitted, other matters might be examined and stated, bearing on this subject, but they would little aid or strengthen the inferences to be drawn from the facts submitted. The extent, character, and value of the fisheries, in connexion with the trade and commerce of the British North American provinces, will appear in an examination of the statistical tables which form a part of this report; and from an examination of the existing treaties bearing on the fisheries, the restrictions and inequalities under which American fishermen pursue their business will be apparent. It follows, therefore, that to secure anything like reciprocal trade between the United States and those provinces, a more liberal policy on the part of the British government in regard to the fisheries must first take place. So long as our citizens are compelled to conduct the fishing business from their vessels in the open sea, and the colonists are permitted to land on any of the shores, inhabited or uninhabited, and set up their fishing stations, and carry on their employment from the land, and American vessels are denied the free navigation of the St. Lawrence, the Gut of Canso, the shore fisheries, and other advantages claimed by the colonists, under the sanction of these treaties, it is believed that our government cannot adopt any measures tending to additional benefits to the commerce of the colonies.

I also transmit abstract (No. 11) offishing vessels lost during the past season, their tonnage, loss of life, &c., as returned by the collectors of the several ports therein named.

Custom House, Boston, January 7, 1852.

The following statement shows the allowances to vessels employed in the fisheries and bounties on pickled fish exported, from January 1, 1820, to June 30, 1851:

	*	
Years.	Allowances to vessel employed in the fish eries.	Bounties on pick led fish export ed.
To 31st December, 1820	\$197,834 63	\$11,168 71
Do1821	170,05292	11,107 80
Do1822	149,897 83	11,158 30
Do1823	176,706 08	10,988 50
Do1824	208,924 08	10,162 80
Do1825	198,724 97	10,560 60
Do1826	215,859 01	13,640 40
Do1827	206,185 55	8,879 20
Do1828	239,145 20	
Do1829	261,069 94	
Do1830	197,642 28	
Do1831	200,428 39	
Do1832	219,745 27	
Do1833	245,182 40	
Do1834	218,218 76	
Do1835	223,784 93	9,536 80
Do1836	213,091 03	
Do1837	250,181 03	1 '
Do1838	314,149 '49	
Do1839	319,852 03	•
Do1840	301,629 34	
Do1841	355,140 01	
Do1842	235,613 07	1
Six mos. to June 30, 1843	169,932 33	
Do1844	249,074 25	
Year ending June 30, 1845	289,840 07	
Do1846	274,942 98	,
Do1847	276,439 38	,
Do1848	243,432 23	i
Do1849		I
Do1850	287,988 75	
Do1851	328,265 01	30 0
	7,725,373 13	241,936 3

M. NOURSE, Acting Register.

TREASURY DEPARTMENT,
Register's Office, August 11, 1852.

S. Doc. 112.

No. 1.

Imports of dried and pickled fish into the port of Boston during the fiscal years ending June 30, from 1821 to 1851.

Year.	Dried	fish.	Pickled	l fish.
	Quintals.	Value.	Barrels.	Value.
1821	6	\$13	87	\$245
1830	37	389	351	2,591
1840	575	3,937	7,845	76,194
1843	. 169	1,989	9,667	39,796
1844	. 125	1,340	26,047	170,58
1845	684	3,933	21,322	194,948
1846	430	2,798	17,598	155,264
1847	13,822	22,424	41,456	199,17
1848	. 20,774	48,262	72,419	322,730
1849	723	2,851	34,597	189,698
1850	7,013	15,244	55,886	301,904
1851	3,424	8,463	92,312	473,008
	47,782	111,643	379,587	2,126,128

P. GREELY, Jr., Collector.

Collector's Office,

Boston, December 17, 1851.

Quantity and value of dry and pickled fish exported from the port of Boston to foreign countries from July 1, 1843, to Inne 30, 1851, inclusive.

	Total value.		\$463, 653 576, 685 499, 528 525, 554 482, 573 302, 862 318, 108 284, 100 284, 100
	ded.	Value.	\$44,471 106,119 51,203 54,392 98,648
-caught.	Pickled.	Barrels.	10, 923 26, 493 17, 459 14, 864 22, 785 92, 584
Foreign-caught.	Dry.	Value.	\$48,331 28,573 12,127 13,769 7,678 110,478
	Ď	Quintals.	29, 698 16, 903 6, 050 7, 671 3, 494 63, 816
	led.	Value.	\$62, 535 165, 607 110, 607 110, 609 22, 177 24, 585 116, 016 22, 138 370, 907
-caught.	Pickled.	Barrels.	17, 065 112, 964 28, 251 11, 061 11, 061 7, 066 3, 609 4, 667
American-caught.	у.	Value.	\$401, 118 551, 078 388, 548 389, 883 321, 704 214, 947 233, 931 155, 636
	Dry.	Quintals.	157, 313 149, 352 153, 790 152, 716 105, 170 100, 412 109, 931 61, 805
	Period.		1843 to 1844. 1845. 1846. 1847. 1849. 1850.

Custom-house, Boston, Collegtor's Office,
December 18, 1851.

No. 3.

Statement of dry fish warehoused in the district of Boston and Charlestown from June 30, 1847, to June 30, 1851; also, dry fish withdrawn from warehouse during the same period.

			~•	-	,,,	•		•
	ii.	Value.	Dollars.	12,478	75	964	106	13, 623
	Consumption.	Quantity.	Cut. qrs. lbs.	4,796 0 30	91 3 6	471 3 18	52 0 0	5,411 3 16
AREHOUSE.	ri di	Value.	Dollars.	38,864	7,698	11,736	7,679	65, 977
WITHDRAWN FROM WAREHOUSE.	Exportation.	Quantity.	Cwt. qrs. lbs.	15,926 1 14	1,920 1 16	6,100 2 21	3,242 0 17	21, 190 2 12
	on.	Value.	Dollars.	2, 231		1,574	3, 967	1,772
	Transportation,	Quantity.	Cvot. qrs. lbs.	817 2 8		637 3 0	1,467 1 8	2,922 2 16
.e	Value		Dollars.	52,885	7,554	14, 795	10, 584	85, 818
WAREHOUSED,	Quantity		Cust. qrs. lbs.	21, 371 0 2	1,994 1 14	7, 420 1 21	4,189 1 10	34,975 0 19
	During years ending-	•		June 30, 1848	June 30, 1849	June 30, 1850	June 30, 1851	Total

Statement of pickled fish warehoused in the district of Boston and Charlestown from June 30, 1847, to June 30, 1851; also, . pickled fish withdrawn from warehouse during the same period.

	7 M	WAREHOUSED.	D.				WITEDRAW	IN FROM W.	WITHDRAWN FROM WAREHOUSE.			
During years ending-	Remole	H£bble	Value	T	Transportation.	on.	1	Exportation.	ď	ວັ	Consumption.	i
	Darrets.	Tr-nais.	v deluce.	Barrels.	Barrels. Hf-bbls.	Value.	Barrels.	Hf-bbls.	Value.	Barrels.	Hf-bbls.	Value.
June 30, 1848	48,218	466	\$201, 426	6,680	41	\$25,865	27, 318	36	\$99, 264	14,513	522	\$74,447
June 30, 1849	31,762	387	106,542	5,083	9	17,896	14, 398	21	38, 249	9,067	223	. 43,849
June 30, 1850	30, 346	383	105,550	7,032	36	23, 230	14,716	25	39, 337	4, 124	111	22,708
June 30, 1851	47, 499	915	229, 716	2,970	231	15,739	22, 583	168	87, 315	19,740	495	118, 416
Total	157, 825	2,148	643, 234	21,765	314	82, 730	79, 015	250	264, 165	47, 444	1,351	259, 420

No. 5.

279,515 275, 430 Imports of dried and pickled fish into the United States during the fiscal years ending June 30, from 1843 to 1850, inclusive. Value. Pickled. Cwt. | Value | Barrels. 1846. 9,319 Dried. Value. 280, 519 Pickled, Cwt. | Value. | Barrels. 30, 506 1845. 9,646 Dried. 43, 542 261, 013 1, 297 Value. Pickled. Cwt. |Value. | Barrels. | 1844. 3,067 ::::: ****** Dried. 360 Value. 16, 762 120, 196 33838 Pickled. Barrels. France on the Atlantic..... Spain on the Mediterranean 16, 303 29 1343. Cwt. Value France on the Mediterranean French West Indies..... Gibraltar Sweden and Norway..... Spain on the Atlantic..... taly Mexico..... 1, 299 29 1,411 Dried. British West Indies..... 88 Harse Towns..... British American colonies. Scot and Holland England Whence imported.

No. 5-Continued.

	_		1847.			ř	1848.			*	1849.	,			1850.	
Whence imported.	Dri	Dried.	Pickled.	rled.	D	Dried.	Pickled.	rled.	Dried.	ed.	Pickled	led.	Dried.	ed.	Pickled.	led.
2	Cwt.	Value.	Barrels.	Value.	Cwt.	Value,	Barrels.	Value.	Cwt.	Value.	Barrels.	Value.	Cwt.	Value.	Barrels.	Value.
Hanse Towns Holland England Scotland Ireland British West Indies Italy Cuba Italy Beigium France on the Atlantic France on the Mediterra- nean French West Indies France on the Mediterra- nean Gibraltar Mexico Sweden and Norway Trieste Maltar Spain on the Atlantic Sweden and the Atlantic Sweden and norway Trieste Maltar Spain on the Atlantic Scoily Africa Canada	6,901	\$30 15,827 5 5 16,083	1, 361 1, 361 19 19 10 11, 193 80, 259 4 4 47 47 83, 541	\$387 3,688 224 124 124 567 567 378,425 22 33 190	52 50, 649 50, 649 1, 895 18	52 648 1,095 11,475 50,649 125,568 18 55 18 55 18 55 51,826 127,799	1,003 1,540 174 166 149,866 53 53 11 11 100	\$2,049 4,151 1,033 1,033 2,647 676,763 2,51 2,51 1,28 1,28 1,28 1,28 1,28 1,28 1,28 1,2	21, 670 41, 144 41, 128, 520, 43, 520, 43	\$856 444 41, 216 15 21 21 45 45 45 45 45 45	639 2,474 101 80 161 475 117 173 8 8 8	\$1,180	113 119 10 10 10 10 10 10 10 10 10 10 10 10 10	837 167 60 60 60 15 80 80 80 80 665 665	227 725 56 121 121 48 48 165 100, 210 1 7 7 7 7 7 7 7 7 1 1 1 1 1 1 1 1 1 1	\$1,145 1,037 1,037 1,037 234 427 464,076 108 108 108 47 43 47 5 5 5 72 72 72 73
DISTRICT OF BOSTON ANE	1 -	MARLE	CHARLESTOWN, Bostop, December 20, 1851.	stop, Dece	inber 20	, 1851.							P. GR	EELY,	P. GREELY, Jr., Collector.	etor.

No. 6.

250 | 1,424 |..... • Exports of dried and pickled fish from the United States during the fiscal years ending June 30, from 1843 to 1850, inclusive. Value. Pickled. 300 333 Bbls. 1850. Value. 583 \$343 304 7,091 [17,411 Dried. Cwt. 350 | 1,472 4,566 Value. 17,814 45,349 750 1,102389 1,051 Pickled. 343 250 Bbls. 130 1849. Value. \$1,801 296 323 744 14,205 769 Dried. 6, 496 FOREIGN CAUGHT. Cwt. $\frac{51}{110}$ 4,087 18,734 13,407 87,844 \$7, 137 5, 167 1, 161 Value. Pickled. Bbls. 1848. Value 11,567 \$5,249 Dried. 2,000 3,376 Cwt. British Honduras..... 8, 141 4, 566 38, 537 Value. 120 Pickled, ** ** * * * Bbls. 1847. West Indies generally Value. 2, 868 2, 452 100 2, 992 British Honduras 365 568 :::: Dried. 33 French West Indies..... Teneriffe and other Canaries Swedish West Indies.... Cwt. 200 146 204 30,096 767 28 1,142 British West Indies..... Brazil French Guiana.... Dutch Guiana Dutch West Indies..... Venezuela Britsh Guiana..... British American Colonies. Other Spanish West Indies. Hayti Mexico Danish West Indies Whither exported.

163	65	027	450	9/1	•	83, 759
20	22	-	OCT.	27		
283	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,000	: 0	315	320	33,563 42,016 13,959 58,012 33,243 98,683 35,005 141,711 19,899 47,816 29,163 97,970 24,491 59,035 22,551
100		1,872		114	114	24,491
325	3, 257	:	:	:	:	97,970
	1,581	:	:		:	29, 163
	55	:	:	:	:	47,816
:	110		:	:	:	19, 899
838	110 55					141, 711 19, 899 47
500		:				35, 005
:		:	:	: : : : :	:	98,683
:::		:	: : : :	:	:	33, 243
		:	:			58,012
		:	:	:	:	13, 959
:::		:		:	:	42,016
:		:	:	:		33,563
Africa generally	Canada	Bourhon 1,872 2,000	Albitation and a second a second and cond and IIII IIII	Douth America generally.		

Norg.—The quantity to each country not given in the annual reports of 1843, 1844, 1845, and 1846: In 1843, 103 barrels of pickled fish, \$416; in 1844, 755 barrels pickled fish, \$3,164; in 1845, 6 cwt. dried fish, \$21; 100 barrels pickled fish, \$30; 75 barrels pickled fish, \$132; 75 barrels pickled fish, \$1.

Custon-nouse, Boston, Collector's Office, December 22, 1851.

P. GREELY, JR., Collector.

No. 7—Exports of dried and pickled fish from the United States during the fiscal years ending June 30, from 1843 to 1850, inclusive.

~					
			led.	Value.	\$313 17,329 9,359 1,355 1,355 240 3,923 5,273 5,273 1,645 1,645 1,645 1,645 1,645 1,645 1,645 1,645 1,645 1,645 1,645 1,645 1,645 1,647 1,
		1844.	Pickled	Barrels.	46 4,019 25,282 373 373 1,285 1,286 4,051 998 372 372 4,931 8,938 8,938 15,071
		18	Dried.	Value.	\$423 37,605 111 39,455 19,975 220 220 220 23,874 7,539 1,409 15,278 185 265,807 98,749 1,498 1,4
	AMERICAN CAUGHT.		Dr	Quintals,	13, 600 13, 600 19, 357 10, 381 90 49 1, 303 2, 999 4,705 7, 052 7, 052 7, 052 7, 052 7, 052 7, 053 35, 638 35, 638 35, 638 36, 408 38, 408
	AMERICAN		Pickled.	Value.	\$9,836 1,887 1,887 1,887 2,611 3,737 2,239 2,239 14,927 26,666 20 20 20 20 20 20 20 20 20 20 20 20 20
		43.	Piel	Barrels.	240 3,127 1,201 475 180 21 167 672 99 1,030 478 478 6,854 6,854 6
		1843.	Dried.	Value.	\$914 37, 899 19, 782 11, 143 11, 143 2, 618 8, 608 11, 431 10, 653 58, 200 101, 653 58, 504 100 100
			Dr	Quintals.	360 16, 642 (13, 973 7, 998 35, 773 2, 671 6, 163 80, 242 26, 242 26, 242 237 26, 243 273 26, 243 274 26, 243 274 286, 243 274 286, 243 274 286, 243 274 286, 243 274 286, 243 274 286, 243 274 286, 243 274 286, 243 274 274 274 274 274 274 274 274 274 274
		Whither exported.	•		Swedish West Indies Danish West Indies Dutch East Indies Dutch Guiana Gibraltar British East Indies British East Indies British West Indies British Myest Indies British Myest Indies British Afferican colonies French West Indies French Guiana Bourbon, &c. Teneriffe and other Canaries Manilla and Philippine islands Cuba Other Spanish West Indies Frayal and other Azores Cape de Werd islands Trieste and other Austrian ports Turkey, Levant, &c. Turkey, Levant, &c.

842	41	230 518 1, 268	182						197,179
238	13	100 170 200	22						46, 170
7,549 132 2,768	5, 199 1, 915 1, 130	149 1,463 1,242	159 68						609,836
2,943 37 933	1,618 600 510	575 575 514	53 30						271,610
143	65	162 73 595	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			116,042
999	30	75 26 199							30, 554
4,152 85 247	2, 267 400 615	116 1,077 1,898	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				381,175
2, 178 49 85	944 161 314 145	37 325 434	* * * * * * * * * * * * * * * * * * *						174,220
Mexico	Brazil. Cisplatine Republic Argentine Republic. Chili.	China West Indies generally. South America generally Africa generally England	British Guiana. Madeira. Italy. South seas and Pacific ocean	Kussia Cape of Good Hope. Mauritus	France on the Mediterranean. Spain on the Atlantic	Peru. Asia generally. Malia.	Ireland. Scotland. France on the Atlantic	Miquelon and other French fisheries Portugal Holland Canada. Ti Juscany Hanse Towns	

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No. 7

6				S. Doc. 112.
		iled.	Value.	\$855 20,853 8,885 5,839 10,671 2,466 31,668 53,737 11,509 1,509 1,509
	1846.	Pickled.	Barrels.	1, 649 1, 649 1, 638 1, 638 1, 638 35 101 2, 563 855 855 12, 41 17, 729 12, 455 12, 455 12, 455 18, 719 18, 719
	18	Dried.	Value.	\$3,051 \$3,051 \$21,902 19,136 6,284 4,610 7,754 10,602 10,589
AMERICAN CAUGHT.		Ď	Quintals.	353 11, 773 10, 600 2, 493 4, 493 1, 940 1, 940 1, 940 1, 940 1, 940 1, 289 36, 687 36, 687 36, 687 1, 687
AMERICAN		Pickled.	Value.	2300 14, 324 8, 418 8, 418 9, 316 2, 121 4, 205 6, 927 2, 946 2, 926 4, 819 4, 819 4, 819 4, 819
	1845.	Pic	Barrels.	2, 71 1, 973 1, 973 1, 973 40 40 40 1, 265 1, 327 1, 327 1, 327 1, 327 1, 48
	18	Dried.	Value.	\$527 29,739 37,107 17,567 11,567 106 4,600 4,600 1,480 1,480 6,273 17,103 17,103 17,103 20,223 247,772 247,772 247,772 247,772
		ŭ	Quintals.	11, 526 18, 304 18, 304 9, 691 320 320 340 1, 551 1, 755 2, 079 7, 558 123, 000 37, 905 37,
		Whither exported.		Swedish West Indies Danish West Indies Danton West Indies Dutch East Indies Dutch Guiana. Gibraltar British East Indies Australia. Hondures British American colonies French West Indies French West Indies Marilla and other Canaries Manilla and Philippine islands Other Spanish West Indies Cuba. Other Spanish West Indies Trieste and other Azores Cape de Verd islunds Trieste and other Azores Cape de Verd islunds Turkey, Levant, &c. Hayti. Texas.

No. 7—Continued.

,				3. Boo. 112.	
		ed.	Value.	\$932 6,049 4,729 5,007 2,125 7,758 7,758 3,793 1,434	24,760 22,750 22,235
	.83	Pickled.	Barrels.	194 1,441 1,124 1,075 450 401 1,402 146 824 305	3,860 4,866 5,073
	1848.	Dried.	Value.	\$106 17,245 27,704 28,727 850 4,989 4,989 8,511 3,357 1,829 1,829	263,704 61,541 81 81 144,617
CAUGHT.		Dri	Quintals.	31 5,792 10,976 11,839 400 1,577 3,161 1,018 776 5,666	67 94,685 21,753 10 10 38,973
AMERICAN CAUGHT.		ded.	Value.	\$1,201 3,906 3,906 3,202 3,202 4,747 4,747 4,293 4,293 1,731	1, 575 15, 356 30, 686 30, 486 45, 730
	1847.	Pickled	Barrels.	257 925 15 695 627 169 752 1,106 1,1	297 40 5,717 6,717 12,584
	18	ed.	Value.	\$498 14,552 19,807 17,173 2,323 380 5,486 2,324 1,875 2,324 1,875 1,875 14,003	769 632 283, 470 68, 146 394 188, 306
		Dried	Quintals.	168 5, 307 9, 633 7,955 773 160 1, 635 1, 635 1, 051 885 6, 657	293 294 128, 950 25, 833 143 55, 672
	1471.	W fittier exported.		Swedish West Indies. Danish West Indies. Dutch East Indies. Dutch Guiana. Gibraltar. British East Indies. Honduras. Honduras. British West Indies. British West Indies. French West Indies.	Bourbon, &c. Teneriffe and other Canaries Manifa and other Canaries Coba. Other Spanish West Indies. Fayal and other Azores Cape de Verd islands. Trieste and o'ner Austrian ports Turkey, Levant, &c. Hayti. Texas.

No. 7—Continued

)				D.	Doc.	I.	lz.						
		led.	Value.	2, 495	98 4,537 3,017	5, 863	2, 303 4, 764	2, 908 1, 908	90	7,120	204	357 29, 554	540
	1850.	Pickled.	Barrels.	24	870 669	1, 182	371 1,088	94 616 964	88	1, 737	104	7,294	108
	18	Dried.	Value.	\$268 13, 179	25, 462 25, 898	2, 592 1, 920	3, 106 4, 634	3,620	264	100, 364		121,048	3, 826
AMERICAN CAUGHT.		ů.	Quintals.	108	14,860 15,003	1,269	1,051 2,012	1,484	92	49,835 16,215		48, 127	1,423
AMERICAL		Pickled.	Value.	\$431 6.595	4,060 1,846	723	1,292 5,948	2,828 9,828	41	16, 653 15, 007	25.	25,931	201
	1849.	Pic	Barrels.	110	980	130	306 1,378	737		4, 467 4, 164	10	7,810	
	18	Dried.	Value.	\$493 16, 189	16,369 23,450	800	1,972	346 2, 671	518	193, 967	838	76, 867	3,647
		Dr	Quintals.	183	9,086	400	715	165 880 5 970		94, 579	429	30, 526	2,424
	Whither exercised	Willief CApolicus		Swedish West Indies	Dutch East Indies. Dutch West Indies. Dutch Guigna.	Gibralıar Batı Indies	Austra 1a. Honduras, British West Indies	British American coloniesFrench West Indies	Bourbon, &c.	Manila and Philippine islands	Fayal and other Azores.	Trieste and other Austrian ports Turkey, Levant, &c. Hayti	Texas Mexico

P. GREELY, JR., Collector.

2,864 455 525	186 431 607 673 2,681	300 144 100	340		125		1,778 1,778 10	91, 445
616 80 144	43 130 140 102 422	100 20 10	40		21		243 1	19, 944
593 1,695 850	848 3,344 2,852 1,010	209 270 229					815	365,349
210 569 298	305 310 1,703 1,000	73 107 119					₹?G	168, 600
51 434 364 733	297 220 634 634 2,508	1,460	173			188	1,014 265	93, 005
5 74 86 155	89 45 276 550 50	398	38			50	12 274 40	25, 835
59 575 2, 101 3, 193	402 1,018 199 8,046 196 593	1, 016 96 505	35 300		2,300	743	1,844	419,092
37 185 732 1,269	161 742 92 3,061 274	352 40 192	$\begin{array}{c} 13\\100\end{array}$		1, 130	418	1, 049	197, 457
Central Republic of America New Grenada Venezuela Brazil	Grsplantine Kepublic. Argentine Republic. Chili China West Indies generally. Africa generally Enoland	British Gutana Madeira Italy South seas and Pacific ocean.	Cape of Good Hope. Mauritus. France on the Mediteranean.	Spain on the Atlantic. Peru. Asia generally.	Malta. Ireland Scotland	France on the Atlantic. Miquelon and other French fisheries.	Holland. Canada. Toвсану Hanse Towns	

DISTRICT OF BOSTON AND CHARLESTOWN, Collector's Office, Boston, December 22, 1851.

Statement of pickled fish inspected in Massachusetts from 1838 to 1850, inclusive.

	1044.	1845.	1846.	1847.	1848,	1849.
Barrels	Is.	Barrels.	Barrels.	Barrels.	Barrels.	arrels.
24, 0	23	41,062	21, 291	23, 921	37, 113	15,540
χ κ Σ΄ αό	4.0	12, 057	19,989	41,408	53, 500 96, 994	45,699
4,75	9	15,819	13,425	15,644	19, 279	11,908
9,28	00	19,942	20, 994	27, 303	28, 219	18,572
9,37		17,313	18,698	19,912	19,850	13, 490
7,869	_	17, 586	12, 978	17, 368	22,967	15,309
4, 101		7,511	5,072	15, 237	16, 593	12,060
9,300		9,528	14, 459	23,074	31,049	23, 412
652		1,488	1,909	2,003	1,034	0, 982
2, 428		5,054	2,171	5.091	10, 529	6,012
			564	699	916	099
	:	97	258	507	201	115
619	_	1, 172	1,838	3,003	6,268	3,927
330				804	784	218
1,969		8,851	6, 792	6,780	7, 750	4,385
	:	co				
45		93				87
105				47		
:::::::::::::::::::::::::::::::::::::::	:	809	395	425	559	104
	:	202		•		
:	÷		1,462	3,279	9, 722	4,943
	÷		629	1,097		287
: : : : :	:			132		
:::::::::::::::::::::::::::::::::::::::					1 066	GFF

	251	88	362	246, 463
	455	145		203, 499
	610			300, 336
				238, 980
	• • • • • • • • • • • • • • • • • • • •			195, 194
				212, 296
				98,014
•				74, 893
		:		46,537
New Bedford	Nantucket	Westport	Ipswich	

CUSTOM-HOUSE, BOSTON, Collector's Office, December 22, 1811.

Norg.—The returns from each of the above-mentioned towns, from 1838 to 1841, inclusive, are not given, but the total for each year is as follows: 1838, 141,311 barrels; 1839, 111,715 barrels; 1840, 73,018 barrels; 1841, 50,992 barrels.

P. GREELY, Jr., Collector.

No. 9.

Statement of the tonnage of vessels employed in the fisheries of the United States on the 30th of June, 1843, 1844, 1845, 1845, and 1850.

	43. 1844. 1845. 1846. 1847. 1848.	s. 95ths. Tons. 95ths. Tons. 95ths. Tons. 95ths. Tons. 95ths.	901 36 78, 178 86 69, 825 06 72, 516 17 70, 177 52 89, 651 89	775 70 16, 170 66 21, 413 16 36, 463 16 31, 451 13 43, 558 78	322 84 7,045 86 7,165 01 6,802 14 7,502 60 7,194 62	374 86 168, 293 63 190, 695 65 186, 980 16 193, 858 72 192, 609 65	602 93 2,280,005 07 2,417,002 06 2,562,084 81 2,839,045 77 3,154,041 85 3,334,015 29
-							
	1843.	Tons. 95ths.	54,901 36	Enrolled vessels employed in the macket fishery 11,775 70	tons employed in the cod fishery	152, 374 86	2, 158, 602 93 2,

DISTRICT OF BOSTON & CHARLESTOWN, Collector's Office, December 19, 1851.

P. GREELY, Jr., Collector.

P. GREELY, Jr., Collector.

Abstract of bounty allowances to fishing vessels, paid by the collector and disbursing agent of the treasury at the port of Boston, for the John of Boston, for

Total.	\$33,370 04 396,721 39 412,735 78 309,452 34 115,662 50 181,216 42 86,403 78 116,339 78 116,339 78 116,339 78 116,339 78 116,339 78 1,447 90 3,504 12 1,447 90 3,504 12 1,440 00 17,066 14 71 84 71 84 71 84
1850.	\$2,239 70 50,350 04 48,113 59 42,070 55 19,979 51 18,011 05 11,408 56 10,771 13 8,984 60 8,459 58 3,923 57 825 93 546 22 534 33 360 349 23
1849.	\$2,662 07 51,268 5 40,268 5 37,534 37 13,914 12 17,726 83 7,662 95 10,923 62 8,597 42 9,611 25 9,611 25 1,925 68 1,142 25 441 75 825 00
1848.	\$2,266 24 45,663 86 41,666 96 11,779 67 19,123 31 8,817 21 9,935 60 10,829 53 5,180 49 13,108 97 1,736 20 1,365 09 1,384 21 231 74 328 88 1,129 56
1847.	\$1,181 68 36,387 32 31,820 65 32,637 78 9,511 62 14,858 91 8,494 04 11,057 13,613 81 15,613 81 15,414 15,414 168,994 09
1846.	\$893 33 46,313 16 39,256 20 32,902 44 10,667 42 18,123 03 7,491 93 112,236 68 16,311 93 14,079 34 720 00 955 07
1845.	\$3,972 64 38,406 98 39,821 40 31,458 89 9,451 58 7,392 45 7,922 45 20,628 67 14,723 58 120 04 720 00 724 84
1844.	\$5.323 98 36,423 50 45,247 15 27,905 53 11,357 46 23,975 40 15,600 90 14,571 80 759 20 759 20 759 20 1,696 09 1,696 09 1,696 09
1843.	\$3,843,45 32,704 58 36,233 05 22,066 12 10,240 10 18,415 15 8,007 33 15,511 90 12,906 40 685 89 178 19 360 00 299 79 360 00 6,427 78 432 05
1842.	\$3,744 64 28,663 50 37,868 86 18,712 50 9,192 71 13,582 19 5,101 01 20,054 06 12,944 86 12,944 86 12,944 86 314 98 314 98 316 00 4,875 39
1841.	\$7,242 31 30,152 57 52,491 28 22,497 18 9,568 31 15,625 70 3,655 49 17,762 90 21,319 10 17,62 64 17,762 90 17,762 90 17,762 90 17,502 64 17,502 64 17,502 64 17,502 64
District.	Boston Gloucester Barnstable Penobscot Frenchman's Bay. Plymouth Newburupport Salem and Beverly Marblehead New London Portsmouth Stonington Nautucket Edgartown Middletown Middletown New Bedford Belfast Fairfield Ipswich Frovidence Elusworth New Haven

DISTRICT OF BOSTON AND CHARLESTOWN, Collector's Office, December 20, 1851.

No. 11.

Abstract of fishing vessels lost during the year 1851,

DISTRICT OF GLOUCESTER.

Denomination and names of vessels.	Masters of vessels.	Tonnage.	Number of men.	Value.	Proceeds of wrecks.	Amount of loss.	Remarks.
Schooner Daniel P. King. Schooner Powhattan. Schooner Eleanor Schooner Flirt Schooner Princeton Schooner Princeton Schooner Parishing. Schooner Aubileo Schooner Red Wing.	Not given do do do do do do do do do do do do do	73 48 65 93 81 31 85 38 65 58 51 41 113	Not known - do - do - 14 14 10 Not known - do - do - do - do - do - do - do - d	\$3,000 1,200 3,500 8,500 8,600 1,200 5,000 850	\$36 172 600 Total loss do do	\$2,964 1,028 2,900 3,500 2,600 1,200 1,200 3,800	Crew saved. Do. Do. Crew lost. Do. Crew saved. Do. Do.
		629 49	24	21,650	2,284	19, 366	

No. 11-Continued.

DISTRICT OF PENOBSCOT.

Denomination and names of vessels.	Masters of vessels.	Tonnage.	Number of men.	Value.	Value of fittings.	Amount of loss.	Remarks.
Schooner New England Schooner Martha Ann Schooner Morna Schooner Mary Moulton Schooner George Schooner Rapid Schooner Independence Schooner Lian Schooner Elizabeth Schooner Elizabeth Schooner Amelia Schooner Amelia Schooner Amelia Schooner Delight Schooner Delight	Brophy Clark Thurlo Emerson Thurston Thurston Hatch Robbins Pressey Steel Knight Howard Lunt Lunt Abbott	65 13 66 13 66 13 66 13 66 13 67 48 68 38 68 38 68 38 68 38 68 38 68 38 69 68 69 69 68 69 68 60 68 60 68 60 60 68 60 60 60 60 br>60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 6	Ö∵000770 Ö∷000770 Ö∷000770 Ö	\$1,400 1,400 1,400 1,200 1,200 1,000	\$650 300 600 600 600 600 650 775 775 600 500 100 6,325	Total do do do do do do do do do do do do do d	Eight men lost. Six men lost. Eight men lost.

S. Doc. 112.

No. 11—Continued.

DISTRICT OF PORTLAND.

Denomination, and names of vessels.	Masters of vessels.	Tonnage.	No. of men.	Value.	Proceeds of wrecks.	Amount of loss.
Schooner Regulator Schooner Washington Schooner Delight in Peace Schooner Elizabeth Schooner Triumph Schooner Hickory Schooner Caledonia	dododododododo	52 08 51 21 35 66 52 29	8 10 8 6 12 8 14	1,600	None	do do do do

DISTRICT OF BARNSTABLE.

Denomination and name vessels.	Masters of vessels.	Tonnage.	Number of crew lost.	Value.	Proceeds of wrecks.	Amount of loss.
Schooner William Gray Schooner Belle Isle Schooner Rival Schooner Nettle Schooner E. M. Shaw Schooner Franklin Dexte Schooner Hamilton Schooner Grafton Schooner Telegraph Schooner Melrose, an other vessels in this dis trict, partial loss		103 82 47 76 66 92 82 20 63 13 64 22 78 22	4	3,000 1,400 3,000 3,000 2,200 2,500 3,000		3,000 3,000 2,200 2,500 3,000
		563 50	43	19, 100		24, 10

DISTRICT OF PORTSMOUTH.

Denomination and names of vessels.	Masters of vessels.	Tonnage.	Number of crewlost.			Amount of loss.
Schooner Ballerma	do dododo	33 00 96 00 66 00 74 00	8 6 13 10 10	\$1,600 500 1,500 2,500 1,500 7,600	\$900 500 2,800 900 3,500 8,600	Total do

No. 11—Continued.

DISTRICT OF PASSAMAQUODDY.

Denomination and names of vessels.	Masters of vessels.	Tonnage.	Number of crew lost.		Value of outfits.	Total.
Schooner America		43 21 46 61 54 09 143 91	9 8 None	\$700 600 1,200	\$400 400 300	\$1, 100 1, 000 1, 500 3, 600

RECAPITULATION.

Denomination and names of vessels.	Number of vessels.	Tonnage.	Loss in dol- lars.	Loss of life.
District of Gloucester District of Penobscot District of Portland District of Barnstable District of Portsmouth District of Passamaquoddy	14 7 10 6	629 49 696 01 369 54 563 50 328 00 143 91	19, 366 14, 400 5, 600 24, 100 16, 200 3, 600	24 22 66 43 47
Total	49	2,730 53	83, 266	219

P. GREELY, JR., Collector..

COLLECTOR'S OFFICE, District of Boston and Charlestown, January 1, 1852.

PART XIII.

THE FRENCH FISHERIES AT NEWFOUNDLAND.

The recent movements in France in regard to bounties on fish caught at Newfoundland, and exported to foreign countries, are singularly. interesting at the present time, because it will be found, from what follows, that the changes which take place during the present year in the allowance of those bounties are calculated to exercise a powerful effect on the deep-sea fisheries of the United States. Hereafter we are to have fish, caught and cured by citizens of France, entering our markets, under the stimulus of a large bounty, to compete with the fish caught and cured by our own citizens. This altogether new and unexpected movement on the part of France has already attracted attention and excited much interest among the fishermen of the New England States. As affecting an important branch of the industry of our people, this change in the policy of France will be reviewed somewhat at length, in order that the whole matter may be fully understood. The law of France which granted bounties to the sea fisheries being about to expire, the project of a new law was submitted to the National Assembly on the 20th December, 1850, by Monsieur Dumas, Minister of Agriculture and Commerce, and Monsieur Romain-Desfosses, Minister of Marine and Colonies. At the same time, these ministers submitted to the National Assembly an able report on the deep-sea fisheries of France, and a variety of interesting statistical returns, translations of which are embodied herewith.

It is set forth, among other things, by the Minister of State, that the bounties paid by France during the nine years from 1841 to 1850, inclusive, for the cod fishery only, had amounted to the mean annual average of 3,900,000 francs. The number of men employed in this fishery annually amounted to 11,500 on the average. The annual expense to the nation was, therefore, 338 francs per annum for each man. France trains up, in this manner, able and hardy seamen for her navy, it is said, who would cost the nation much more if they were trained to the sea on board vessels-of-war.

The proposed law and report of the ministers of State who introduced it having been submitted to a committee of the National Assembly, a report thereon was presented by Monsieur Ancet, the chairman, on the 3d day of May, 1851, a translation of which is as follows:

Report rendered in the name of the commission for the inquiry into the projected law relating to the great sea fisheries, by M. Ancet, representative of the people. Session of May 3, 1851.

Gentlemen: The commission to which you intrusted the examination of the projected law in relation to the great sea fisheries, presented

by the Ministers of Marine and Commerce, has devoted itself to the said examination with all the attention which its importance demanded. It has heard delegates from all the ports out of which the vessels are equipped. It has consulted the attested reports of the remarkable discussions held by the Counsel of State, as well as the deliberations of the commission formerly appointed, under the honorable Mr. Ducos, its president; deliberations which served—if one may so speak—as the basis for this project; and to conclude, it is only after coming to a perfect understanding with Messieurs the Ministers of the Marine and Commerce, and the Director General of Customs, that we lay before you the result of our labors.

Your commission, messieurs, has not thought for a moment that the encouragement granted to the great fisheries can be regarded as any exclusive favor or protection to any one form of industry. Unquestionably, the industry exerted in the fisheries, and the commercial activity arising from it, becomes a very considerable element of employment and comfort to a numerous class of people, but this consideration appears to us entirely secondary and insufficient to justify the favors of

especial legislation.

We conceive that such industrial employments as can prosper only at the expense of the public treasury should not exist; and that the intervention of the State, in the form of aid and bounties, can be justified only by considerations of general and public interest. It is not, therefore, a commercial law that we have the honor to propose to the Assembly, but rather a maritime law—a law conceived for the advancement of the naval power of this country; for it is in this point of view only, that, in our opinion, the encouragement granted to the great fisheries ought to be maintained. France, seated on the three most important seas of Europe, must continue a maritime power. The memory of her history, the genius of her inhabitants, the variety of her productions, the easiness of her communications with the rest of the continent, and, yet more, the interests of her greatness and of her preponderance in the world, command this.

Nevertheless, the loss of her most magnificent colonies has occasioned irreparable injury to the commercial marine, which is an essential element of naval power. Treaties, which became inevitable in the course of time, have successively robbed her of the most valuable objects of freight. Cotton belongs to the Americans, coal to the English; and at the present moment, the shipments of sugars, our last resource for distant navigation, seem to be daily growing less and less.

The great fisheries still remain to us; and in order to preserve them, we must continue the encouragements they have received, even at periods when a commercial and colonial prosperity, infinitely superior to that now existing, multiplied our shipping, and created abundance of seamen. It is on our fisheries that at this day repose all the most seri-

ous hopes of our maritime enlistments.

In fact, the fisheries give employment to a great number of men, whom a laborious navigation, under climates of extreme rigor, speedily forms to the profession of the sea.

No other school can compare with this in preparing them so well, and in numbers so important, for the service of the navy.

Thus it appears from the crew lists of our marine, that the average numbers of men employed by the one hundred kilogrammes of tonnage, in commercial vessels, are as follows:

For long coasting. 6 men.

For foreign voyages. 8 "

For short coasting. 11 "

For fishery on the Grand Banks 13 "

For fishery at Iceland. 17 "

For fishery at St. Pierre and Miquelon 18 "

For fishery on the coasts of Newfoundland. 30 "

These figures clearly prove the considerable share which cod-fishing bears in the development of our maritime enlistments. If it were necessary to confirm the fact yet more strongly, we should say that table No. 2, appended to this report, establishes that the increase of the maritime population in the districts in which these vessels are fitted out has been, on the average, during the ten years under the prevalence of the law which we call upon you to maintain, not less than twenty-six per cent.; whereas, in the other districts the progress has not exceeded fourteen per cent.

England, notwithstanding the immense resources of her insular position; the United States, where fisheries are both economical and easy, inasmuch as they are carried on upon their own coasts, and Holland, had always favored this description of shipping, and have proportioned their encouragement to the chances of profit or loss, as they appeared

to predominate.

Less than any other maritime nation ought we to refuse support to this admirable school for our seamen, for the French shipmasters are at present in a condition very inferior to that occupied by their rivals.

There was a time when France possessed all the principal fishing grounds in Acadia, Canada, Isle Royale, the isle of St. John, and lastly Newfoundland. The treaties of 1713, of 1763, of 1783, and finally of 1814, have reduced our possessions in those seas to the two islets of St. Pierre and Miquelon; that is to say, of two sterile rocks, destitute of all resources, and on which we are forbidden to raise any fortifications.

The same treaties reserve to us the right of fishing along the coast, but only at determined points and distances. We are only permitted to establish ourselves on the northern part of Newfoundland during a few months of the year, and that without constructing any permanent habitations.

Thus, while the English are in exclusive possession of the best fisheries—while they are enabled to found numerous permanent habitations on the southern coast of Newfoundland, favored by the mildness of the climate and the fertility of the soil—our fishers are obliged to carry out with them yearly, to the north shore, salt, fishing utensils, materials for the construction of places for shelter, and, in a word, all that is necessary for subsistence and for the operations of the season. That portion of Newfoundland is, moreover, as the honorable Mr. Ducos observes, in reporting the laws of 1841, uncultivated and savage; its climate is stormy and severe; its waters far less fruitful in fishes. As regards the Americans, we have already said that their fisheries

are easy and economical along the vast range of coasts they possess,

near the most favorable fishing grounds.

The consequences of such inequality in position can be readily appreciated. On all sides, the cod taken in the English and American fisheries can be sold at prices greatly inferior to the rates for French cod; and the great marts to which we carry our productions will be very soon closed against us, if we do not counterbalance the disadvantages of our situation by means of prudently considered encouragements.

Your commission, gentlemen, has shown, then-

1. That commercial navigation having lost its best elements of transportation, the preservation of the great fisheries assumes a degree of importance more serious when they are viewed as being in fact the nursery of our military marine.

2. That the increase of the enrolment for the navy arising from the vessels used in the fisheries, has justified the hopes which induced the legislation to impose certain sacrifices on the treasury.

3. That in the disadvantageous position to which the treaties have reduced our shipmasters, the fisheries can be maintained only by means of encouragement which will in some degree diminish the advantages possessed by our rivals. It remains to examine what has been the importance of the sacrifices to which the State has submitted, and to consider whether we may look for results proportionate to the assistance asked for from the new clauses of the proposed law.

BOUNTIES ON VESSELS FITTED OUT.

.We fish for cod—

On the Grand Bank of Newfoundland;

On the shores of the same island;

On those of the isles of St. Pierre and Miquelon;

In the Icelandic seas;

And on the Dogger Bank.

We fish with or without drying.

Fishery without drying is carried on in the Icelandic seas, on the Dogger Bank, and on the Grand Banks of Newfoundland. The fish so taken is salted on board the fishing vessels, and each vessel brings it to France as soon as the cargo is completed. This is the green codfish, which is consumed entirely in France. This description of fishery employs far fewer men than the fishery with drying, and yet its returns are far more abundant. Fishery with drying is practised on the Grand Bank of Newfoundland, on the shores of that island, and on those of the isles of St. Pierre and Miquelon.

The cod there taken is dried on shore, either at St. Pierre and Miquelon, or on those coasts of Newfoundland where that privilege is reserved to us. This day, cod is not sparingly consumed in France. It is principally exported, with the aid of bounties, to French colonies and foreign countries, either directly from the fisheries by the fishers

themselves, or by transhipment from France.

It appears from the official tables which have been furnished to us, that during the period from 1841 to 1849 the returns of the French fisheries have been annually, on an average, about 44,000,000 kilogrammes: of this gross amount, 27,000,000 have been consumed in France, 17,000,000 have been exported to the colonies or to foreign countries; and that the exportation has been made in nearly equal proportions from the seats of fishery and from the ports of France. Thus about two-fifths of the returns of our fisheries are yearly exported to matkets from which the competition of our rivals would very soon exclude us, were it not for the aid afforded by means of bounties; for the prices of the English and American cod must always be lower than the rates of our fish, owing to the different positions in which we are placed. We shall proceed to show that, should this be the case, and this exportation be stopped, our equipment of vessels for the fisheries would be reduced to a most insignificant number, and our enrolment of seamen would be deprived of one of its most precious resources. The encouragements given to the cod fishery are divided into bounties on the number of men in every crew, and into bounties on the exportation of the produce, counted by the quintal of cod, but the amount of bounty varying according to the destination of the cargoes.

It follows that the bounties on the crew are beneficial to the vessels employed in both kinds of fishing—that with, and that without drying. The average annual amount of bounties to the crew for the last ten

years has been 530,000 to 540,000 francs.

The bounties on exportation apply only to the 17,000,000 kilogrammes exported, whether to our own colonies or to foreign countries, and have amounted, on an average of years since 1841, to 3,800,000 francs; that is to say, during the nine years elapsed since 1841, the expenses of the State on the cod fisheries have annually reached the

average of 3,900,000 francs.

The cod fisheries employ 332 vessels, 47,000 tons burden, and manned, according to the government returns, by 11,500 men. Each of these men, therefore, is an annual charge on the nation of 338 francs. But it has been said that if the bounties paid on the exportation of fish were discontinued, the fisheries necessary for the provisioning of France itself would still remain; and it is, in reality, for only about one-third of the produce of our fisheries that the budget is charged yearly with so heavy a sum. It is not, therefore, 12,000 sailors, but the third part of that number, which costs us three millions.

Messieurs, this reasoning has been seriously discussed by your commission, and it appears to us that it is actually the 12,000 fisher sailors, and not the third of that number, who profit by the sacrifices of the treasury. In fact, the operations of the fisheries are indivisible, and form a single whole. It is the elasticity given by exportation to the price in our markets which alone induces the fitting out so many vessels. Is it not true, if the bounties did not aid in the shipments to the colonies, and to foreign ports, of a considerable proportion of the produce of the fisheries, those external markets would be closed against us, and that consequently thereupon the French markets would be embarrassed, and prices lowered?

The consequences which must follow from such a state of things can be easily foreseen. The produce of the fisheries selling in France only, because all exportation would be impossible, two-thirds of the outfits would cease. It may be said that there would be even a greater reduction than this, and that France, after the loss, too great to be appreciated, of a large part of her naval enrolment, would have either

to pay very dearly for French fish, or else admit foreign cod.

As we have observed, messieurs, the fisheries without drying, the operations of which are more simple and the returns larger, employ a much smaller number of sailors. But, again, the vessels in use for this purpose employ only the actual number of hands necessary for the navigation of them; and it may be said of this fishery, that if it prepares fewer men for the sea, it forms better sailors, the elite of the navy. It is pursued principally on the Grand Bank of Newfoundland, and in forty fathoms of water. The vessel lies at anchor, and sends out her boats every day, in the heaviest seas, to set, and again take up the lines. Of

all kinds of fishery it is the rudest and most exposed.

It would seem at first that the encouragements given to it should be equal to those given to the fisheries with drying and the island fisheries, since on the one hand its products are abundant, and more capable, owing to their quality of sustaining competition against foreign produce; and on the other, it furnishes excellent sailors for the naval levies. But to the powerful considerations of economy which have continually governed us, and led us to reduce rather than exceed the amounts of the encouragement given in past times, is added this reflection—that the law cannot adopt as its end the encouragement of the trade in codfish. This branch of industry, as we have already stated, could have no title above any other to require sacrifices on the part of the state, if it did not, in a very advantageous proportion, augment the number of our sailors. In this point of view—the only one which can be admitted by the legislator—that fishery which furnishes the most sailors is that which best justifies the highest encouragement. Now, the fishery on the Grand Bank, without drying, is the best school for sailors; but it is incontestable that the fishery on the coast of Newfoundland, as well at St. Pierre and Miquelon, offer a readier and more efficacious means of recruiting the navy. As to that which is carried on upon the coast of Newfoundland, with drying, the bounties on the outfit which it enjoys have not been altered since 1816. It has always been fixed at fifty francs per man for each of the crew. The law, moreover, imposes on all vessels fitted out with this destination, the obligation of embarking at least twenty men in every vessel of less than one hundred tons burden; thirty men for a vessel from one hundred to one hundred and fifty-eight tons; and fifty men for a vessel from one hundred and fifty-eight tons upward. It is this fishery which employs the largest number of vessels, and which is most favorable to enlistments. In it, young men from fifteen to eighteen years, who otherwise would never have thought of navigation, go on board as cabin-boys or green-hands, and make several voyages. They are employed in the work ashore, and in drying the fish. The second year they go out in the fishing boats every morning, and return every evening; by this means they are formed gradually to continued navigation. After three years, these young men, if they have passed the age of sixteen years, are classed, and belong for the remainder of their lives to the maritime lists. Beyond question, these recruits who so largely swell our lists are, at

first, but very imperfect sailors; there are even some who, after the three voyages required previous to being entered on the lists, give up the sea as an employment; but the number of these is much smaller than has been stated. And is it not evident that our population on the sea-board would enter less readily upon the career of seamen, if, in place of the excitement and interest which their engagement in the fisheries offers, they had no prospect but that of embarking in the vessels of state?

The government proposes to you to continue the bounty of fifty francs a man for the crews of vessels employed in the fisheries, with drying, whether carried on upon the coasts of Newfoundland, at St. Pierre, and Miquelon, where the conditions and method of fishing are analogous, or upon the Grand Bank. We have alluded to the difficulties of this mode of fishing, even when it is prosecuted without drying the fish caught.

We give entire approbation to these propositions.

The bounty on the fishing without drying in the Icelandic seas, is fixed at fifty francs per man for each of the crew, since the law of June 25, 1841. We have retained this also, on the recommendation of messieurs the Minister of Commerce and the Marine. No fishery, in truth, is more suitable for the formation of intrepid sailors. On the coast of Newfoundland the ship is laid up and dismantled; on the Grand Banks it is at anchor; in Iceland it must needs be under sail among floating ice, and on a sea continually stormy and agitated. The fishing is practised with hand-lines, from a hundred to a hundred and fifty fathoms in length; the fish, instead of being salted in bulk, is prepared and salted in tuns brought from France. The cod coming from Iceland are not dried; this fishery only furnishes the green cod consumed in France, and thus it receives no benefit on the bounties for exportation. The number of vessels fitted out not having increased of late years, it is reasonable to conclude that the profits of this fishery are not considerable.

Six vessels only have been sent to the Dogger Bank since 1841. We retain the bounty of 15 francs per man for each of the crew, which is

given to this fishery, carried on in the North sea.

Bounty on the produce of the fisheries.—According to the law of 1841, the bounty on dry codfish sent to the French colonies, whether from the place where the fish is caught or from the warehouse in France, is fixed at 22 francs per quintal. The law proposes to reduce this amount to 20 francs per quintal; and we approve the reduction. The same law of 1841 assigns a bounty of 14 francs the quintal to all codfish sent into transatlantic countries. A decree of August 24, 1848, raised this bounty to 18 francs. The present project proposes to render it equal to that accorded to fish sent to the French colonies. We believe this new proposal to be wisely conceived, and likely to produce very beneficial effects on our fisheries. In fact, the diminution of two francs per quintal in the bounty on exportations to our colonial possessions, together with an augmentation of two francs in favor of exportation to foreign transatlantic countries, will tend to open new foreign markets to us, at the very moment when the political and commercial situation of our colonies leads us to apprehend a decrease of their ordinary consumption.

The sacrifice on the part of the treasury will not be augmented; for a considerable quantity of codfish was re-exported from our colonies, after having enjoyed the bounty of 22 francs. The shippers would no longer have an interest in overstocking our colonial markets with their produce, since the bounty will be no higher when sent there than when sent to Cuba or Brazil; and, at the same time, the exemption from all duties in our colonies guaranties that they will always be sufficiently supplied.

The prohibition to send codfish to ports at which there is no French consul forms part of the law of 1841. In order to prevent abuses, the shippers are obliged to furnish a certificate proving the good quality of their fish, and its exact weight. It is important to the interest of the treasury that these certificates should be made by a government officer, who would be under the influence of responsibility not felt by men completely unconnected with the administration. There is, moreover, no port of any consideration at which there is not a French consular

agent.

This commission has considered it its duty to admit our colonies on the western coast of Africa to the benefit of the same bounties accorded to the West India colonies, and has especially had Senegal in view—a colony too often overlooked and forgotten. The government has accept-

ed this addition to the proposed law.

The present project establishes the bounty of 16 francs on exportations to European countries and to foreign States on the Mediterranean, which the law of 1841 had established at 14 francs, and a decree of 1848 had raised to 18 francs. This reduction in favor of the treasury we do not consider likely to militate against our exportation to those countries. In concurrence with the government, we include Tuscany in this category; but we except from it Sardinia, where ancient and well-assured relations permit us to reduce the protection to 12 francs.

Upon the whole, messieurs, the scale of bounties which we above propose to you promises the treasury a saving of 300,000 francs, provided that, in spite of our fears of its decrease, our exportations of codfish remain equal to what they have been during the last ten years.

The second article of the proposed law retains the obligation that each vessel shall have a minimum of crew proportioned to the size of the ship. This measure, which was established in 1832, on the request of the shipmasters themselves, is at once preservative of their interests and those of maritime enlistment, the essential object of all the protection to the fisheries.

The Minister of Marine has declared to us that the minimums appeared to him to be judiciously regulated, and that there was no necessity for modifying them, the administration having had, thus far, no reason to complain of any abuses. The commission has therefore approved the minimums as they are now established, adding, that if, in the course of the term which you propose to fix for the duration of the law, the necessity of augmenting them shall become evident, the government shall have the power to provide for their increase.

The vessels sent to the fisheries without drying, having salt on board—that is to say, in Iceland and on the Grand Bank—are never subjected to the ordinance respecting minimums; they embark at their own pleasure,

such number of men as their crew as they deem advisable for navigating and fishing. Their crews are less numerous, because they have no need, like the vessels fishing on the coast, to employ hands in the operation of drying fish ashore; but all the men being mariners, all contribute alike to the naval enrolment. These vessels are compelled to bring back to France the entire produce of their fisheries. Several ports on the channel, which fit out especially for the fisheries without drying, have many times complained of the absolute prohibition to sell any part of their cargoes at the seat of the fisheries, or to store them at St. Pierre, in order to be forwarded thence to colonial or foreign markets. It is understood that the object of this prohibition is to disallow the great bounty (formerly 22 francs, henceforth 20 francs) to vessels, which, not being subject to the regulations respecting a minimum number of crew, do not contribute so largely to the naval enrolment. It may be observed, on the other hand, that these vessels form the best sailors; and there are circumstances under which the absolute compulsion to bring back the produce of their fishery to France may prove ruinous to their operations.

Messicurs the Ministers of Commerce and the Marine have entertained this view of the case, and have stated that it is the intention of the government to grant the liberty desired, under certain conditions, which will prevent the abuses that might otherwise creep in. Your commission proposes to you to provide by law that a regulation, made and published by the government, shall declare under what circumstances the warehousing of fish at St. Pierre shall be permitted, and the conditions which shall regulate warehousing. The fishery at the Grand Bank, without drying, decreases under the bounty of 30 francs. Not being able, however, to ask further sacrifices of the treasury, we wish to reanimate the outfit of these vessels, which it is so important to preserve, by other means. The third article stipulates that the bounty on the crew shall be paid but once during the season, even if the vessel should make several voyages. This wise disposition prevents the possibility of having the same men counted twice in the same year. The same article prohibits the payment of the bounty to any men but those who have arrived at the maritime enrolment through the gradations required by law, or to those who, having been inscribed therein, conditionally, shall not have attained the age of twenty-five previously to the date of sailing.

The men who have passed the age of twenty-five without being classed—that is to say, without having made three voyages—are less easily trained to the habits of the sea. The profession of a mariner is one which must be adopted while young; and if the bounties were accorded to men of above twenty-five years, and not classed, the law would fail in one of its most important ends—that, namely, of creating a class of men especially suitable for enrolment in the navy. It is right and fit, therefore, that the projected law should exclude such men from

the receipt of the bounty.

The fourth article requires that, in order to obtain the bounty, the cod shall be in fit condition for consumption as food. This provision of the law cannot but obtain general approbation. The fifth article admits simple coasters to the right of carrying codfish, and receiving the boun-

ties allowed on the exportation of the same to ports and markets. This right is accorded by the laws now existing. At present the law permits every mariner who shall have made five fishing voyages on the coasts of Iceland, the two last as an officer, to be deemed capable of

commanding a fishing vessel in the same seas.

The sixth article of the government project abrogates this privilege, and reserves the command of such vessels exclusively to captains in foreign voyages, and the masters of coasters; this provision to date from January 1, 1852. The chamber of commerce at the port of Dunkirk, where vessels are specially fitted out for the Iceland fishery, has protested strongly against this provision. Its adoption—so they say—would act runinously on the Icelandic fishery. Of one hundred and twenty vessels annually sent to sea, fifteen, at most, are commanded by the masters of coasters, who quit that hard and laborious navigation when they find an occasion to take command of merchant vessels. In truth, it is our opinion, messieurs, that the difficulties of the Icelandic fisheries require practical experience, and the endurance of privations of all kinds to which mariners, who have become masters of fishing craft, are accustomed from their childhood, and we are of opinion that it is not advisable to deprive these devoted and gallant men of the hope of reaching a station which more experienced mariners are for the most part indifferent to acquire; and in order to reconcile the security of navigation with the facilities required by commercial interests, and asked for by a whole class of sailors, we propose to you to suppress all conditions with reference to date, and to add to the first article these words: "if he shall prove himself to have such knowledge of his profession as will be sufficient for the security of navigation." A ministerial decree of 1840 has already made an examination of masters of fishing vessels obligatory; the new law will only confirm, by rendering legal, a usage already established. The fourth article reproduces the provisions of the twelfth article of the law of April 22, 1832, adding to it a provision by which the government will have the power of fixing the period during which each vessel shall remain on the fishing grounds.

Your commission is of opinion that it is advisable such periods should be lawfully determined; but while admitting the article, it desires that such period should be so limited as to throw no obstacle in the way of

the fisherman's operations, in regard to the bounties.

SECOND HEAD.

The second head of the project presented by the government relates to the salt to be used in the fisheries.

Your commission, messieurs, has carefully examined the provisions under this head. It has examined many individuals representing the manufactures of the different kinds of salt, and several delegates from the outfitters of vessels interested in the matter; and, after mature deliberation, the commission has come to the opinion that, pending the existence of a special inquiry into the manufacture of salt, with which a committee by you appointed is at this moment engaged, it is our duty to strike out of a special law on fisheries, any propositions which might thereafter be modified by general legislation. We limit ourselves, therefore, to affirming the legislation which actually directs the

use of the various kinds of salt to be employed in the curing of codfish, without anticipating, by any particular definition, the final conclusion

at which the Assembly may arrive in regard to salt.

We are the more convinced of the propriety of holding ourselves to this reservation, since the government has declared to us, since the presentation of the project, that it was its intention to strike out the exemption which the —— article seemed to insure to the codfish imported into France from the fishing places, and that it shall be necessary to prove, as well for such fish as for that exported to the colonies or foreign markets, that it was cured with salt of French manufacture, or with salt which had paid duty as at present.

The second head is, therefore, merely a re-enactment of the law of * 1848, which is useless. But you will agree with us, messieurs, that if the existing legislation on the character of the salt should be modified unfavorably to the cod-fishing interests, the scale of bounties which we have calculated on deductions from facts now existing, must be established proportionably to the reduction which the augmentation of

the duties of salt may occasion.

Upon the foregoing report the National Assembly of France passed the law therein mentioned on the 22d July, 1851, which was officially

published on the 22d August last.

This law provides that from the first day of January, 1852, until the 30th June, 1861, the bounties for the encouragement of the cod-fishery shall be as follows:

BOUNTIES TO THE CREW.

1. For each man employed in the cod-fishery, (with drying,) whether on the coast of Newfoundland, at St. Pierre and Miquelon, or on the Grand Bank, 50 francs.

2. For each man employed in the fisheries in the seas surrounding

Iceland, without drying, 50 francs.

3. For each man employed in the cod-fishery on the Grand Bank, without drying, 30 francs.

4. For each man employed in the fishery on the Dogger Bank, 15 francs.

BOUNTIES ON THE PRODUCTS OF THE FISHERIES.

1. Dried cod, of French catch, exported directly from the place where the same is caught, or from the warehouse in France to French colonies in America or India, or to the French establishments on the west coast of Africa, or to trans-Atlantic countries, provided the same are landed at a port where there is a French consul, per quintal metrique, equal to two hundred and twenty and a half pounds avoirdupois, twenty francs.

2. Dried cod, of French catch, exported either direct from the place where caught, or from ports in France, to European countries or foreign States within the Mediterranean, except Sardinia and Algeria, per

quintal metrique, sixteen francs.

3. Dried cod, of French catch, exported either to French colonies in

America or India, or to trans-Atlantic countries, from ports in France, without being warehoused, per quintal metrique, sixteen francs.

4. Dried cod, of French catch, exported direct from the place where caught, or from the ports of France, to Sardinia or Algeria, per quintal metrique, twelve francs.

BOUNTY ON COD LIVERS.

5. Cod livers which French fishing vessels may bring into France as the product of their fishery, per quintal metrique, twenty francs.

From the foregoing state of bounties, it will be seen that there are some grounds for the fears entertained by the fishermen of New England, that the cod caught by the French at Newfoundland will be introduced into the principal markets of the United States, with the advantage of a bounty of twenty francs on the French quintal metrique, which is two hundred and twenty and a half pounds avoirdupois, very nearly equal to two dollars per American quintal of one hundred and twelve pounds—a sum almost equal to what our fishermen obtain for their dried fish when brought to market.

In order to show the extent to which the French prosecute their deep-sea fisheries, the following returns are presented. They are translations from the official returns annexed to the report of the commission of the National Assembly, and have, therefore, the highest of-

ficial authority.

THE COD FISHERY

No. 1.-Return of vessels fitted up for the cod fishery from the year 1842 to the year 1850, both inclusives.

	Men.	11, 217 10, 904 11, 005 11, 249 11, 727 2,163	1,378	10,882	11, 125 10, <u>606</u> 11, 573
Totals.	. РодвапоТ	401 51, 041 11, 217 394 49, 325-10, 904 389 48, 322 11, 005 377 46, 158 11, 249 386 48, 660 11, 727 387 51, 509 12; 163	389 49, 219 11, 378	416 53, 456 10, 882	354 49, 097 11, 1 324 38, 79, 10, 6 361 48, 899 11, 5
	Ships.	401 51 394 49 389 48 377 46 386 48 387 51	389	416	324
ank.	Men.	22			
Dogger Bank.	Топпаge.	50	:		. %
Dog	Ships.		:	:	
	Men.	1,024 1,259 1,512 1,323 1,458 1,458	1, 338	1,254	1,248 1,033 1,371
Iceland.	Топпаде.	6,508 7,684 8,692 7,663 8,159 8,058	7, 794	7, 476	7, 439 6, 014 7, 516
	Ships.	83 97 109 104 105	66	104	90 73 101
, with-	Men.	1,726 1,947 1,644 1,447 1,412 1,184	1,560	1,537	1,257 1,239 1,196
ind Bank, wout drying.	Топпаде.	10814, 836 11916, 785 10014, 316 8812, 777 8412, 539 7010, 968	95 13, 703	102 14, 891	7111,986 6911,737 6711,482
Gran o	Ships.	108 1100 100 100 100 100 100	95	102	71 69 67
wfound- ying.	Men.	1,785 1,325 1,269 1,648 2,140 2,052	1,703	1,340	2, 529 1, 867 2, 150
Grand Bank of Newfound- Grand Bank, with- land, with drying.	Топпаде.	6,827 4,597 4,271 5,253 6,330 7,799	5,816	6,917	8,781 6,587 7,066
Grand I	Ships.	33 20 20 20 20 20	43	26	65 48 51
	Мел.	209 192 350 161 51 66	172	372	33 101 141
St. Peters and Miquelon.	Топпаде.	1,262 676 1,161 537 168 168	657	2, 321	110 316 328
St.	Ships.	000411	ທີ	80	-0.00
found-	Men.	6,473 6,157 6,230 6,670 6,666 7,394	6, 599	6,369	6, 058 6, 359 6, 715
st of Newfound- land.	Топпаде.	148 21, 608 133 19, 500 138 19, 882 149 20, 228 147 21, 464 157 24, 485	145 21, 195	142 21, 797	1381
Coast	Ships.	148 133 138 147 157	145	142	127 20, 7 131 14, 1 139 22, 4
	Years.	1842 1844 1844 1845 1846 1846	Annual mean	Mean of the period from 1835 to 1839	1848 1849 1850

No. 2.

The account of the sums paid as bounties to the crews of vessels employed in the cod fishery of France in the years 1842, 1843, 1844, 1845, 1846, and 1847.

Place of fishery.	1842.	1843.	1844.	1845.	1846.	1847.
Coast of Newfoundland St. Peters and Miquelon. Grand Bank, (dried fish). Grand Bank, (green fish). Iceland Dogger Bank	51, 200	Francs. 307, 850 9, 600 66, 250 58, 410 62, 950 360	Francs. 311,500 17,500 63,450 49,320 75,600	Francs. 333, 500 3, 050 82, 400 43, 410 66, 150	Francs. 333, 300 2, 550 107, 000 42, 360 72, 900	Francs. 369, 900 3, 300 102, 600 35, 520 72, 700 135
Total	526, 330	505, 420	517, 370	528, 510	558, 110	584, 155
Annual mean of above six Dopreceding	years					Francs. 536, 649 485, 190
Total paid in the year 184 -Dodo184 -Dodo185	9					531, 110 505, 275 554, 730
Annual mean of eight yea	rs, 1842 to 1	849				532, 035

No. 3.

Return of the number of persons enrolled annually for the navy in the several maritime districts of France from the year 1840 to the year and the several maritime districts of France from the year 1840 to the

	*.fsto	Сепета! (6, 233	8, 439	4,844	17,625	12,690	10,711	7,395	5,942	8,080	2,378	21,274	105, 611
		Boys.	865	983	541			1,626			1,094	176	4,019	14, 602
	.spu	Стеев ра	919	1,894	1,001	4,365	2,481	1,567	1,522	1,014	1,353	537	3, 654	20, 307
1842.	seamen.	Total.	4,019	4, 304	2,741	10,589	7,852	6,447	3, 767	3,064	4,598	1,405	10,541	59, 417
	Petty officers and seamen	Seamen.									4,363			54,610
	Petty off	Petty officers.	69	114	191	1,068		416	112	281	235	101	1,944	4,807
	& mas-	snistqsD liq rət	430	1,258	561	744	1,022	1,071	1, 102	835	1,035	170	3,060	11,285
	.lsto	General t	6.291	7,839	4,664	16, 938	12,085	10, 400	7,241	5,763	7,681	2,306	20,897	102, 102
		Boys.	953	835	299			1,510			1,002	171	3, 936	14, 182
	.aba	авсеп рва	1.055	1,678	296	4, 168	2, 148	1,542	1,365	984	1.159		3, 433	18,937
1841	seamen.	Total.	3, 899	4,072	2, 539	10, 186	7,596	6, 290	3,710	3,014	4,494	1,480	10, 407	57,687
	Petty officers and seamen	Seamen.									4,270		8, 545	53, 112
	Petty of	Petty officers.	55	104	133	1,054	279	389	26	285	224	93	1,862	4,575
	& mas- ots.	Captains fer pil	434	1,254	559	741	1,013	1,058	1,086	837	1,026	167	3, 121	11,296
	Districts.		Dunkirk	Havre	Cherbourg	Brest	St. Servan	L'Orient	Nantes	Rochefort	Bordeaux	Bayenne	Toulon	Total

No. 3—Continued.

			,
	.fal.	General to	6, 528 9, 033 4, 920 18, 769 11, 079 7, 835 8, 029 2, 409 20, 807
		Boys.	842 7,767 824 8,043 1,400 1,1047 1,190 917 161 1,190 1,190 1,173
	.spr	Стееп ра	1,053 1,953 1,953 4,648 2,713 1,563 1,445 1,358 1,208 20,415
1844.	seamen.	Total,	4, 214 4, 685 2, 864 11, 366 7, 924 6, 763 3, 372 4, 830 11, 551 11, 047 62, 598
	Petty officers and seamen	Seamen.	4, 113 4, 549 2, 669 10, 265 7, 581 6, 302 3, 838 3, 067 4, 578 1, 433 8, 932
	Petty of	Petty officers.	101 136 1,101 343 343 461 144 305 252 252 253 2,115 5,271
		snistqsD liq 191	1, 266 583 712 868 1, 091 1, 151 789 1, 074 1, 074 1, 074 1, 074
	total.	General	6, 391 8, 757 4, 844 18, 467 19, 878 10, 935 7, 452 8, 067 2, 372 20, 605
		Boys.	849 1, 029 563 2, 071 1, 577 1, 706 1, 101 1, 034 1, 634 1,
	.abm	Стееп ра	1, 033 1, 889 896 8, 445 1, 550 1, 561 1, 201 1, 279 1, 279 3, 262 3, 262
1843.	seamen.	Total.	4,094 4,574 2,815 11,120 7,884 6,590 3,825 3,210 1,526 10,800
;	Petty officers and seamen	Seamen.	4,006 4,436 2,624 10,023 7,549 6,144 6,144 8,910 1,118 8,757 56,025
	Petty of	Petty officers.	85 138 1,097 335 446 133 300 258 2,043 5,133
	& mas-	Captains ig ret	1,265 570 570 726 1,078 1,123 1,123 1,034 1,034 1,11,050
	Districts.		Dunkirk Havre Cherbourg Brest St. Servan L'Orient Nautes Bordeaux Bordeaux Toulon

6, 603 9, 493 5, 045 11, 259 11, 210 7, 468 6, 765 7, 951 2, 505 General total. 895 1, 340 742 2, 742 1, 202 1, 934 1, 934 1, 217 1, 217 1, 217 1, 217 1, 217 1, 217 3, 657 624 Воув. 15, 980 1,964 830 830 2,627 1,434 1,381 1,185 1,135 1,132 631 2,812 20,354 Green hands. 1846. 4, 307 4, 915 2, 884 12, 387 7, 904 6, 776 3, 928 3, 666 4, 974 1, 519 11, 276 536 Petty officers and seamen Total. 64 Seamen. 4, 191 4, 765 2, 680 111, 208 111, 208 6, 336 6, 336 3, 737 3, 737 9, 347 1, 399 1, 399 9, 137 044 59 116 150 204 204 378 378 440 191 319 256 139 Petty officers. 5,492 421 1,274 619 752 879 1,066 1,168 697 1,091 175 2,981 11, 123 ter pilota. Captains & mas-6, 760 9, 479 5, 097 119, 748 112, 964 11, 591 7, 814 6, 733 7, 948 2, 508 21, 247 111,889 General total. 902 1,289 2,378 1,808 1,035 1,183 1,183 1,183 1,779 3,769 424 Boys. 15, 1,068 1,997 1,997 2,768 1,639 1,273 1,273 1,125 3,155 635 Green hands. . 20° 1845. 4,383 2,928 11,956 17,851 7,031 4,105 3,486 4,948 4,948 1,566 11,424 697 Petty officers and seamen Total. 64, Seamen. 4, 271 4, 777 4, 777 10, 801 7, 539 6, 560 3, 952 3, 171 4, 689 1, 446 9, 320 284 59 416Petty officers. 112 151 204 204 1, 155 312 471 153 315 859 120 120 2, 104 ຜ 1,265 594 737 881 1,113 1,173 1,096 1,096 2,899 11, 133 ter pilots. Captains & mas-Bayenne Cherbourg L'Orient..... Nantes.... Rochefort..... Districts. Bordeaux

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Doc. 112.

No. 3—Continued.

			K	J.		ند	'O	Ç.		1.	LA	٠.		
	.f.etol.	СевегаІ	7, 019	9,890	18I 'c	25,104	13, 726	12, 109	7,916	7,452	S, 128	2,872	22, 974	122, 411
		Boys.	996	1,385				1,866			729	215	4, 298	17,280
	.spu	Стееп ра	1,044	2, 147				1,940			1,276		3, 243	24, 917
1848.	seamen.	Total.	4, 569	5, 077	2, 965	13, 684	8, 181	2, 206	4, 193	3, 919	5,042	1,581	12, 359	68, 776
	Petty officers and seamen	Seamen.	4,448	4,943	2, 752	12, 441	7,806	6, 791	4,005	3, 578	4, 779	1,468	10, 174	63, 185
	Petty off	Petty officers.	121	134	213	1,243	375	415	188	341	263	113	2, 185	5, 591
	& mas-	eaistasO lig ret	440	1,281	602	814	927	1,097	1, 222	726	1,081	174	3,074	11,438
	otal.	General t	6, 823	9, 883	5, 136	23, 280	13, 491	11, 590	7,605	7,140	7,962	2,697	22, 245	117,858
		Boys.	951	1,388	753			1,944		1, 229	648	200	4, 227	16,770
	-spu	Green ba	943	2, 108	828	6,621	3, 124	1,468	1,354	1,428	1,269		3, 159	23, 110
1847.	seamen.	Total.	4,498										11,827	66, 706
	Petty officers and seamen	Seamen.	4, 382	4, 964	2, 729	11,576	7,744	6, 663	3,940	3,458	4,709	1,423	9, 697	61, 285
	Petty of	Petty officers.	116	146	506	1, 114	374	433	200	316	260	123	2, 130	5, 421
	-sam a	SanistqsO fiq 194	431	1, 277	587	793	903	1,082	1, 199	209	1,076	173	3,032	11, 262
	Districts.	!	Dunkirk	Havre	Cherbeurg	Brest	St. Servan	L'Orient.	Nantes	Rochefort	Bordeaux	Bavenne	Toulon	Total

				~	•	_	_	,	•	_	-	~	•	
	.fsjo	General t	6,837	10,057	5,072	25, 662	14,005	12, 488	8, 170	7,746	7,643	2, 910	23, 873	124, 463
		Boys.	959	1,445	685			2, 327				215	4,600	17, 475
	•sbn	ви пээтЭ	905	2, 145	873	7, 216	3,441	1,711	1,538	1,512	1,015	200	3,291	24, 440
1850.	seamen.	Total.	4, 532	5, 216	2,927	14,672	8,418	7, 368	4, 278	4, 121	4,882	1,711	13,021	71, 146
	Petty officers and seamen	Seamen.	4,408	5, 076	2, 719	13, 395	8,049	6,984	4,092	3,841	4,645	1,594	10,979	65, 782
	Petty off	Petty officers.	124	140	208	1,277	369	384	186	280	237	117	2,042	5, 364
	& mas-	aniatqaD liq 191	444	1,251	587	908	941		1,266	292	1, 114		2, 961	11,402
	otal.	deneral t	6,974	9,804	5, 119	25, 182	13,968	12,087	7,984	7, 410	7, 997	2,865	22, 972	124, 052
		Boys.	930	1,252	687	3, 351	1,411	1,890	1,091	1,260	757	234	4, 310	17, 135
	nds.	Green ha		2, 168	934	7,347		1,960	1,469	1,502-		872	3, 252	25, 311
1849.	seamen.	Total.	4, 532	5, 109	2, 905	13,665	8, 142	7, 148	4, 208	3, 924	199	1,586	12, 350	69, 985
	Petty officers and seamen	Seamen.	4,412	4,976	2, 695	12,410	7,769	6, 759	4,022	3, 580	4,712	1,469	10,240	64, 467
	Petty off	Petty officers.	120	133	210	1,255	373	386	186	344	249	1117	2, 110	5,518
	ernas-	Raptains Liq 191	446	1,295	579	835	926	1,107	1,254	200	1,107	181	3, 132	11,621
	Districts.		Dunkirk	Науге	Cherbourg	Brest	St. Servan	L'Orient	Nantes	Rochefort	Bordeaux	Bayenne	Toulon	Total

S. Doc., 112.

No. 4.

Return of the quantity of dried cod exported direct from the place where caught to the colonies of France, with the rate and amount of bounty paid thereon, in the years 1842 to 1850 inclusive.

Years.	Number of ships employed.	Rate of bounty.	Quantity of cod exported.	Amount of bounty paid.	Average quantity of cargo.
1842	83 110 88 120 115 126	Francs. 22 22 22 22 22 22 22	Kilogrammes. 6, 366, 042 7, 943, 377 7, 591, 477 9, 538, 033 9, 869, 153 9, 366, 996	Francs. 1, 400, 529. 30 1, 747. 542. 94 1, 669, 684 94 2, 098, 367. 26 2, 171, 313. 61 2, 051, 760. 72	Kilogrammes. 76,669 72,213 86,380 79,483 92,443 74,150
Total	642		50, 675,078	11,139,098.82	481, 368
Annual average	107 68		8,445,846 6,466,024	1,856,516.33 1,808,099.94	80, 228 104, 234
1848	84 91 107	22 22 22	5, 838, 692 5, 275, 637 5, 544, 399	1,284,512.35 1,160,640.14 1,219,767.86	69, 508 57, 974 51, 816
Average of eight years— 1842 to 1849	102		7,723,550	1, 693, 030.35	76,100

S. Doc. 112.

No. 5.

Return of the quantity of dried cod of French catch exported from the warehouse in France to French colonies, in the years 1842 to 1850, inclusive, and the amount of bounty paid thereon.

					# 1 m
Years.	Number of ships employed.	Rate of bounty.	Quantity of cod exported.	Amount of bounty paid.	Average quantity of cargo.
1842	121 146 173 202 109 82	Francs. 22 22 22 22 22 22	Kilogrammes. 3,759,988 4,380,036 4,382,355 5,372,286 3,696,354 2,977,965	Francs. 827, 156.76 963, 607. 92 964, 118.10 1,181, 902, 92 813, 152.30	Kilogrammes. 31, 072 30, 000 25, 331 26, 590 33, 911 36, 616
Annual average	139 68		4, 094, 800 3, 580, 050	5, 405, 135.88 900, 855.98 914, 434.00	30,533 *** 52,646
1848	87 119 94	22 22 22	2, 456, 812 3, 162, 766 1, 936, 387	536, 098.53 695, > 08.52 426, 005.14	28, 239 26, 611
Mean of eight years—1842 to 1849	129	,	3, 773, 547	829, 630.00	29,758

No. 6.

Return of the quantity of dried cod of French catch exported from the ports and curing places of France to French colonies in the years 1842 to 1850, inclusive, and amount of bounty thereon.

Years.	Number of ships employed.	Rate of bounty.	Quantity of cod exported.	Amount of bounty paid,	Average quantity of cargo.
1842	44 31 47 19 23 2	Francs. 16 16 16 16 16 16 16	Kilogrammes. 766, 913 385, 027 634, 872 231, 287 761, 863 47, 909	Francs. 122, 240.96 61, 604.32 101, 579.52 37, 005.92 121, 898.08 7, 655.44	Kilogrammes. 17, 429 12, 420 13, 507 12, 173 33, 124 23,954
Annual average Average of preceding period, 1837, 1838, 1839	27 ² / ₃ 17	16	471, 312 276, 423	75, 330.70 50, 688.00	18,768 14,515
1848	41 27 29	16 16 16	556,504 863,679 661,838 531,007	89, 040.72 138, 188.72 105, 894.16 84,902.96	17,951 21,065 18,953

Return of the quantity of dried cod exported direct from the places where caught, by fishermen of France, to foreign countries, in the years 1842 to 1850 inclusive, with the amount of bounty paid thereon in each year.

	d. of bounty paid, in francs.	89, 495. 28 144, 408.12 313, 410. 80 410, 970.14 5 328, 736. 22 4 114, 513. 42		1 299, 388.00 3 395, 367.98	2,096,289.96	7 269, 036.29
	Total quan- tity exported.	745, 794 1, 203, 401 2, 576, 476 3, 370, 929 2, 697, 705 942, 374	11, 536, 679	1, 922, 780 3, 137, 331 2, 229, 627 3, 067, 273 687, 059		2, 101, 197
Italy.	Bounty in france.	89, 495.28 144, 408.12 283, 775.04 365, 759.52 293, 654.88 104, 522.04		203, 889. 72	1, 781, 594.52	222, 698.75
	Quantity in kilo- grammes.	745,794 1,203,401 2,364,792 3,047,996 2,447,124 871,017	10,680,124	1,780,020 3,063,358 1,699,081 2,467,416 594,615		1,855,828
Levant.	Bounty in francs.			70, 147. 44	107, 163.90	12, 781, 05 1,855,828
Le	Quantity in kilo- grammes.			389, 708 205, 647 92, 444	3-	
Algeria.	Bounty in francs.	29, 635.76 45, 210.62 250, 580 71, 367 9, 991.38	•	25, 350.84 31, 824.90	102, 248.46	l
ΑΙξ	Quantity in kilo- grammes.	250,580 71,367	321,948	140, 838 176, 805		13, 160, 38
Spain and Portugal.	Bounty in francs.			217, 405 30, 436.70	105, 283.08	13, 160, 38
Spain and	Quantity in kilo- grammes.	211, 684 322, 933	534,617	1	•	94, 003
	Years.	1842. 1843. 1844. 1845.	Total	Annual average	Total bounty	Average of eight years—1842 to 1849

Return of the quantity of dried cod, of French catch, exported from the ports of France to foreign countries in the years 1842 to 1850, inclusive, with the amount of bounty paid thereon in each year.

No. 8.

	Total quantity exported. of bounty paid, in francs.	324, 064 42 473, 054.34 504, 195.14 492, 441.44 547, 006 28 345, 205.06			•	695, 12751 724, 22178	4, 105, 315.97	513, 164. 49
	Total quantity exported.	2, 659, 995 3, 777, 464 3, 942, 905 3, 728, 343 4, 200, 544 2, 766, 981	21, 076, 229	3, 512, 705	3, 137, 331	4,771,319 4,836,795 1,576,546		3,835,813
Italy.	Bounty in	273, 210.96 334, 695.72 286, 869.36 177, 159.48 246, 446.76 253, 033.68				347, 419.56 292, 802 64	2,211,608.16	276,451 00
Ita	Guantity in kilogrammes.	2, 276, 758 2, 789, 131 2, 390, 578 1, 476, 329 2, 053, 473 2, 108, 614	13, 094, 883	2, 182, 480		2,895,163 2,440,032 1,065,674		2,303,558
Levant.	Bounty in	22, 508.08 89, 471.76 170, 743.86 1197, 166.62 253, 851.92 70, 515.06				227,312.74 392,103.54	1, 423, 703.58	177, 962. 94
Le	ai viinsu. Lilogrammes.	160, 772 639, 084 1, 219, 599 1, 408, 333 1, 813, 228 503, 679	5, 744, 695	957, 449		1, 207, 293 2, 178, 353 302, 059		1, 141, 293
Algeria.	Bounty in francs.	22, 837. 08 48, 546. 82 42, 935.76 31, 820. 46 46, 276.02 21, 084. 84				120, 395.21 37, 515 60	371, 411.79	46, 426. 47
A lg	ni yliinen.D .zəmmergolizi	163, 122 346, 763 306, 684 227, 289 330, 543 150, 606	1,525,007	254,168	73,973	668.863 208,420 148,813		300, 286
Spain and Portugal.	Bounty in francs.	5, 508. 30 340.04 3,646.16 86, 294.88 461.58 571.48				1,800.00	98,622.44	87, 705 12, 327.85
Spain and	Quantity in kilogrammes.	39, 345 2, 486 26, 044 616, 392 3, 297 4, 082	691, 616	115,274		10,000		
	Years.	1842 1843 1844 1845 1816	Total	Annual average	Average of preceding period	1848	Total bounty	Average of eight years, from 1842 to 1849

No. 9.

An account of the amount of bounties paid out of the treasury of France for the encouragement of the cod and whale fisheries, from 1842 to 1849, inclusive.

Years.	Cod fishery.	Whale fishery.	Total.
1842	Francs. 3, 295, 285.18 3, 922, 518.16 4,079, 260.84 4, 765, 646.96 4, 481, 531.36 3, 760, 6\ddot8.58 3, 433, 446.01	Francs. 356, 845. 54 461, 455. 25 527, 938. 69 224, 602. 76 296, 611. 06 277, 845. 40 89, 948. 40	Francs. 3, 652, 130.72 4, 383, 973. 41 4, 607, 199. 53 4, 990, 249. 72 4, 778, 142. 42 4, 038, 513. 98 3, 523, 394. 41
1849	3, 644, 957.33	190, 821.52 2,426,068.62	3, 835, 778.85

Annual average during the above eight years, 4,226,172.88 francs.

Note.—The amount of bounties paid in France up to the 1st day of Decen as ollows:	ber, 1851, was
Cod	Francs2, 631, 643, \$0
Whale	. 178,010.62
Total	.2, 809, 651 52

APPENDIX.

Having described in previous portions of this report the various works which compose our system of artificial improvements, a brief notice of the internal and domestic commerce of the country, which may be said to be the result of these works in connexion with our unrivalled natural channels of trade—our navigable lakes and rivers; the general character and direction of this commerce; its progressive development, and present and prospective magnitude; the influence it has exerted in the advancement of the wealth and prosperity of the country; and the relation that some of our leading staples bear to our foreign and domestic trade—forms an appropriate sequel to be considered in this Appendix.

The great facilities which are offered by the topographical features of the country for a vast and extended domestic commerce, were foreseen at an early period of its history. The wonderful sagacity of Washington discovered and predicted the result which the people have within a comparatively few years achieved. When, in 1783, he proceeded up the Mohawk valley to Fort Stanwix, the present site of Rome, N. Y., and from thence, over the route now occupied by the Erie canal, to the waters of Wood creek, which flow into Lake Ontatio, and from thence to the sources of the Susquehanna, he gave the following expression to this glowing thought: "Taking a contemplative and extensive view of the vast inland navigation of the United States, I could not but be struck with the immense diffusion and importance of it, and with the power of that Providence who had dealt his favor to us with so profuse a hand. Would to God we may have wisdom to improve them."

Our national progress has undoubtedly far transcended all that the "Father of his Country" dared ever to hope or desire. Our natural avenues have been improved, and artificial ones have been constructed, allowing the free, rapid, and cheap movement of the products of national industry in every direction, and the producer and consumer in every portion of the country are brought into convenient connexion with each other. By opening easy access to markets, the development of our resources has been stimulated to an extraordinary degree. The results obtained can hardly be better expressed than by copying the following paragraph from the celebrated Treasury Report of the Hon.

Robert J. Walker, of 1847-'48, in which he says:

"The value of our products exceeds three thousand millions of dollars. Our population doubles once in every 23 years, and our products quad ruple in the same period. Of this three thousand millions of dollars only about \$150,000,000 are exported abroad, leaving \$2,850,000,000 at home, of which at least \$500,000,000 are annually interchanged between the several States of the Union. Under this system, the larger

the area and the greater the variety of climate, soil and products, the more extensive is the commerce which must exist between the States, and the greater the value of the Union. We see then, here, under the system of free trade among the States of the Union, an interchange of products of the annual value of at least \$500,000,000 among our twenty-one millions of people, whilst our total exchanges, including imports and exports, with all the world beside, containing a population of a thousand millions, were, last year, \$305,194,260."

The following tables will exhibit something of the productions and value of the country in 1850, and of its commerce with foreign nations in 1851. These tables have been compiled from various authentic and official sources, and may be relied upon as the nearest approximation to correctness that can be had under the present system of procuring

statistics.

Tonnage in 1852.....

The following statements show the trade and commerce, population, treasury receipts, &c., of the country, for several years:

Average yearly imports, 1821 to 1826, inclusive, specie omitted	\$74,554,315
Average yearly imports, 1821 to 1826, inclusive, specie	
included	80,878,348
omitted	176,247,101
included	181,966,579
Average yearly exports, 1821 to 1826, inclusive, specie omitted	69,439,785
Average yearly exports, 1821 to 1826, inclusive, specie included	77,491,843
Average yearly exports, 1848 to 1852, inclusive, specie omitted	155,760,131
Average yearly exports, 1848 to 1852, inclusive, specie included	175,943,360
Tonnage in 1821	298,958 tons.

.... 4,138,441 tons.

S. Doc. 112.

Receipts into the Treasury from customs and other sources.

Year.	Customs.	Total from all sources.
1800	\$9,080,932	\$12,451,184
1810	8,583,309	12,144,206
1820	15,005,612	20,881,493
1821	\$13,004,447	\$19,573,703
1822	17,589,761	20,232,427
1823	19,088,433	20,540,666
1824	17,878,325	20,381,212
1825	20,098,713	26,840,858
	87,659,679	107,468,866
. Average	17,531,936	21,453,778
1830	\$21,922,391	\$24,844,116
1831	24,224,441	28,526,820
1832	28,465,237	31,865,561
1833	29,032,508	33,948,426
1834	16,214,957	21,791,935
	119,859,534	143,976,864
Average	25,971,907	28,795,378
1847	\$23,747,864	\$52,025,989
1848	31,757,070	56,693,450
1849	28,346,738	59,663,097
1850	39,668,686	47,421,748
1851	49,017,567	52,312,979
1852	47,339,326	49,728,386

Per cent. increase in custom receipts.

Year.	Customs.	Per cent. increase for 10 years.
1810	\$8,583,309	783 +
to 1820	15,005,612)
to 1830	. 21,922,391)	46111+
to 1840	. 13,499,502	(Decrease.)
to 1850	39,668,686	1985 +

Statement showing the valuation, area, and population to the square mile in 1850, with the indebtedness of the several States in 1851.

States.	Valu	Valuation.	Area in square	Population to the	Indebtedness in 1851.
1	Assessed value.	True or estimated value.	miles.	squär e mi le.	
Alabama	\$219,476,150	\$228,204,332	50,722	15.21	\$8,539,110
	36,428,675	39,841,625	52,198	4.01	1,506,562
California*	22,123,173	22,161,872	188,982		475,460
	119,388,672	155,707,980	4,674	79.33	91,212
	17,442,640	18,652,053	2,120	43.17	
	22,784,837	22,862,270	59,268	1.47	12,800
	335,110,225	335,425,714	58,000	15.62	1,828,472
	114,782,645	156,265,006	55,405	15.36	16,627,509
	152,870,399	202,650,264	33,809	29.23	6,775,522
	21,690,642	23,714,638	50,914	3.77	79,442
	291,387,554	301,628,456	37,680	26.07	4,397,637
Louisiana	220,165,172	233,998,764	46,431	11.15	11,492,566
Maine	96,765,868	122,777,571	30,000	19.44	009,009
Maryland	208,563,566	219,217,364	9,356	62.31	15,424,380
Massachusetts	546,008,057	573,342,286	7,800	127.49	6,259,950
Michigan	30,877,223	59,787,255	56,243	70.7	2,528,872
Mississippi	208,422,167	228,951,130	47,156	12.86	7,271,707
Missouri	98,595,463	137,247,707	67,380	10.12	922,261
New Hampshire	92,177,959	104,652,835	9,280	34.26	76,000
New Jersev†	190,000,000	200,000,000	8,320	58.84	71,810

New York	715,369,028	1,080,309,216	46,000	67.33	23,403,550	
North Carolina	212,071,413	226,800,472	45,000	19.90	311,000	
Ohio	433,872,632	504,726,120	39,964	49.55	18,744,594	
Pennsylvania	497,039,649	722,486,120	46,000	50.25	40,316,362	
Rhode Island.	77,758,974	80,508,794	1,306	112.97		
South Carolina	283,867,709	288,257,694	24,500	27.28	2,061,292	
Tennessee	189,437,623	201,246,686	45,600	21.98	3,352,856	
Texas	51,027,456	52,740,473	237,321	68.	12,435,982	
Vermont	71,671,651	92,205,049	10,212	30.76		
Virginia	379,561,660 *	389,731,438	61,352	23.17	15,196,856	
Wisconsin	26,715,525	42,056,595	53,924	5.65	12,892	1
•	2009 140 400	7 000 1 FM MMB	1 108 017		901 541 694	J.
	9,389,149,407	1,000,101,118	1,400,01,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	401,021,063	U
	-	-				_

\$201,541,624	209,305,552	211,252,432	205,708,038	216,911,554	224,023,827
Total debt in 1851.	Total January 1, 1850.	Total January 1, 1849.	Total January 1, 1848	Total January 1, 1847	Total January 1, 1846

^{*} Only thirteen counties—the other statistics destroyed by fire in San Francisco. † This is the Territorial debt. ‡ In New Jersey only the real estate was given, (partly estimated.)

On the 1st of June, 1850, the population of the United States was 23,263,000, and the rate of increase during the preceding ten years, with an average immigration of 150,000 per annum, was shown to be about three and one-fifth per cent. annually. At this rate of progress, the inhabitants had increased to 25,237,000 on the 1st of January, 1853. But during the intervening time there had arrived from Europe 990,000 immigrants, which was 604,000 above the average for the same length of time during the previous decennial term. This excess being added to the natural increase, and to the number of immigrants who had arrived upon the average before mentioned, the result shows that the* population of the United States on the 1st of January, 1853, was 25,841,000, representing an increase of 2,578,000, somewhat over eleven per cent., during the thirty-one months preceding. This increase of population is probably greater than the ratio which ought to be assumed in estimating the advance of the country in respect to its property, productions, and material resources in general. Ten per cent. may be adopted as a truer ratio, and upon this basis of computation and comparison the following tables have been prepared.

Valuation of real and personal estate of the inhabitants of the United States for the years ending June 1, 1850, and December 31, 1852, together with the average amount to each inhabitant.

States and Territories.	True or estimated value in 1850.		Population of	Average real
	value in 1000.	value in 1852.	each State January 1, 1853.	and person- al property to each in- dividual.
Maine	\$122, 777, 571 103, 652, 835 92, 205, 049 573, 342, 286 80, 508, 794 155, 707, 980 1, 080, 309, 216 200, 000, 000 722, 486, 120 18, 652, 053 219, 217, 364 430, 701, 082 226, 800, 472 288, 257, 694 335, 425, 714 22, 862, 270 228, 204, 332 228, 951, 130 233, 998, 764 52, 740, 473 39, 841, 025 201, 246, 686 301, 628, 456 504, 726, 120 59, 787, 255 202, 650, 264 156, 265, 006 137, 247, 707 23, 714, 638 42, 056, 595 22, 161, 872 14, 018, 874	\$135, 055, 328 114, 018, 118 101, 425, 553 630, 676, 514 88, 559, 673 171, 278, 778 1, 188, 340, 137 220, 000, 000 794, 734, 732 20, 517, 258 241, 139, 100 473, 771, 190 249, 480, 519 317, 083, 463 368, 968, 285 25, 148, 497 251, 024, 765 251, 846, 243 257, 398, 640 65, 014, 520 43, 825, 127 221, 371, 354 331, 791, 301 555, 198, 732 65, 765, 980 222, 915, 290 171, 891, 506 150, 972, 477 26, 086, 101 46, 262, 254 24, 378, 059 15, 420, 761	649, 338 352, 960 348, 673 1, 103, 883 163, 769 411, 578 3, 438, 107 543, 406 2, 566, 082 101, 603 647, 168 1, 578, 043 964, 482 742, 042 1, 005, 658 97, 015 856, 554 673, 276 574, 690 235, 977 232, 699 1, 112, 913 1, 090, 569 2, 198, 252 441, 395 1, 097, 141 945, 131 757, 067 213, 357 238, 762 183, 150 57, 372 6, 744 12, 631 14, 755	\$208 323 290 571 540 416 345 404 309 201 372 306 258 427 366 259 293 374 447 245 188 198 199 122 136 133 268

In the preparation of the foregoing statement, the tables of the seventh census have been strictly followed, and the general rates of increase, both for population and property, found to have obtained throughout the country during the past thirty-one months, have been applied to each State, though, of course, some States have advanced much more rapidly than others. There is reason to believe that the real and personal property is considerably undervalued in the census report. This will be illustrated by the following comparison of prop-

2 0		
erty and wealth among the urban and rural population. It appears from the census that—		
140 cities and towns, of more than 10,000 inhabitants each, confain a population of 2,860,000 Towns and villages of over 200 inhabitants (estimated) 1,140,000		
Total population of cities, towns, and villages in the United States 4,000,000 Total rural population 19,263,000		
23,263,000		
The four cities of New York, Philadelphia, Baltimore, and Boston, contain a population of. Amount of real and personal property Average amount of real and personal property to each individual in the above cities. Aggregate amount of real and personal property owned by residents in cities, towns, and villages. \$2,312,000,000		
The average amount of personal property owned by each inhabitant of cities and towns appears to be \$166. If the average among the rural free population be about the same, it follows that the aggregate distributed among that class is \$2,660,000,000. The total amount of real and personal property in the United States on the 1st June, 1850, therefore, may be thus stated:		
Value of farms, plantations, live stock, farming implements, materials, &c		
population 2,660,000,000 Real and personal property owned in cities, towns,		
united States and State stocks owned in the United		
States, representing public property and not taxed 100,000,000		
Total value of real and personal property of the United States in 1850. Add 10 per cent. for increase of prices since June, 1850 Add 10 per cent. for increase in the amount of property 907,1364,000 907,136,400		
Total value of real and personal property, January 1, 1853		

The subjoined table is designed to exhibit a general view of the agriculture of the United States. The aggregate quantity and value of crops are first presented, and next the several items which are supposed to constitute the fixed capital of the agricultural interest. It has been thought proper to assign one-fourth of the value of live stock to the column of annual production, as that is probably the rate of yearly increase. The remainder, together with the value of farms and farming implements and machinery, should obviously be reckoned as capital.

In ascertaining the average price of crops, those of the New York Price Current for January, 1853, have been taken, and a deduction therefrom of fifteen per cent. has been made, to cover expenses of transportation and commercial charges. Where special circumstances require a departure from this rule, they are noticed in the remarks appended to the table.

Table showing the amount and value of the productions of agriculture in the United States for the year 1852.

Productions.	Quantity.	Price.	Total value.
Wheat bushels.	143, 000, 000	\$1 00 per bushel	\$143,000,00.5
Rye do	1 , 607, 000	89 'do	13, 880, 230
Indian corn do	652, 000, 000	60do	391, 200, 000
Oatsdo	161,000,000	44do	70, 840, 000
Ricepounds.	236, 843, 000	3 40 per pound	8, 052, 662
Tobaccodo	283, 000, 000	6do	16, 980, 000
Cottondo	1, 290, 000, 000	10do	*129,000,000
Wool do	58, 067, 000	50do	29, 033, 500
Peas and beans bushels.	10, 141, 000	80 per bushel	8, 112, 800
Irish potatoesdo	97, 500, 000	75do	73, 125, 000
Sweet potatoesdo	42, 085, 000	80do	33, 668, 000
Barley do	5, 683, 000	60do	3, 409, 800
Buckwheatdo	9, 900, 000	50do	4, 950, 000
Orchard produce	2,000,000	• • • • • • • • • • • • • • • • • • • •	10, 000, 000
Winegallons.	1,000,000	50 per gallon	500,000
Value of produce of market gardens.		oo ber ganou	50, 000, 000
Butter pounds.	344, 592, 000	20 per pound	
Cheesedo	116, 088, 000	6do	68, 918, 400 6, 964, 280
		1	
Clearer and other gross and a hyphele	15, 222, 000	12 50 per ton	190, 275, 000
Clover and other grass seeds, bushels.	974, 380	5 00 per bushel	4,871,900
Flax seeddo	8, 487, 500	1 30do	11, 033, 750
Hops pounds.	4, 231, 000	17 per pound	719, 270
Hemptons	39,000	136 00 per ton	5, 304, 000
Flax pounds.	15, 420, 000	6 per pound	925, 200
Maple sugardo		5do	1, 983, 750
Cane sugardo	272, 339, 000	4do	10, 893, 000
Molassesgallons.		25 per gallon	3, 442, 500
Beeswax and honeypounds.		20 per pound	3,750,000
Animals slaughtered			133, 000, 000
Poultry			20, 000, 000
Feathers			2, 000, 00 0
Milk and eggs			25, 000, 000
Residuum of crops not consumed by	stock		110,000,000
Annual increase of live stock			167, 750, 00 0
Total annual productions of agri	culture		1, 752, 583, 042
Value of farms	ek.		\$3, 914, 864, 000 503, 250, 000 181, 250, 000
Total capital employed	in agriculture		4, 599, 364, 000

^{*}The price stated may be too high, and the quantity underrated.

REMARKS UPON THE AGRICULTURAL TABLE.

1. The crop year of 1849, to which the returns of the seventh census apply, was reported nearly all over the country as a season of "short crop." Investigations undertaken by State legislatures and agricultural societies prove that the aggregate production of wheat reported in the census tables was below the average by at least 30,000,000 of bushels. That amount has been added to form a basis of comparison for ascertaining the crop of the past year, as given in the foregoing table.

2. The quantity of tobacco assumed as the production of 1852, exhibits an increase of more than forty per cent. on that of 1849. This result is ascertained from commercial statements, and circulars, the ac-

curacy of which there is no reason to question.

3. The cotton crop of 1852 is estimated at 3,225,000 bales of the average weight of 400 pounds, and the average price for the year is assumed at ten cents per pound. The quantity will probably exceed that given in the table. Able statistical writers have made calculations showing the probability of such an increase in the production of this great staple as will bring up the crop of 1860 to 1,720,000,000 pounds.

4. The census returns of 1850 showed a small decrease of the potato crop as compared with 1840. This was owing to the disease called the potato rot. That disease is said to be disappearing, and it is considered safe to assume the production of the past year as about equal to what it would have been, had no such cause of retrogression occurred

during the course of the late decennial term.

- 5. The census tables undoubtedly present an estimate of the wine crop very far below the truth. In the State of Ohio, the vintage of 1849 yielded more than the whole quantity assigned to the United States. Since that year, numerous vineyards along the Ohio, in Missouri, and elsewhere—some of them of large extent—have been brought into a condition to add largely to the production of the country in this article California and New Mexico, also, reported as producing more than a quarter of all the wine of the United States, must become fertile wine districts.
- 6. The value of the produce of market gardens is much understated in the census returns. The class of produce coming under this designation includes the whole of some highly important crops, as beets, turnips, carrots, onions, parsnips, melons, tomatoes, besides numerous minor productions which are separately of small account, but collectively amount to a very large sum. The estimate in the table is a moderate one.
- 7. The price of hay in New York at the end of the year 1852, was between twenty-five and thirty dollars per ton. But the quantity of this bulky article entering into the trade of the country is relatively so small, and the expense of its transportation to a market is so considerable in comparison with its original value, that the arbitrary sum of \$12 50, or less than half the selling price in New York, has been assumed as the average in the country at large.

8. The item of the value of hides and peltries is a very important one, amounting doubtless to many millions of dollars; but it is pre-

sumed to be included in the value of animals slaughtered.

9. The estimates for poultry, feathers, milk, and eggs, of which articles no returns are found in the census tables of 1850, may seem to many extravagant; but the gross amount is equal to an average of only some twelve or fifteen dollars to each farming establishment in the United States, and is undoubtedly very considerably within the truth.

10. Too high an importance has been sometimes attached to the

10. Too high an importance has been sometimes attached to the residuum of crops as an integral part of the agricultural wealth of the United States. In official tables heretofore published, the value of such portions of the produce of the field and forest as are not susceptible, in the usual course of trade, of a transfer to market, and must be consumed on the farm, has been given at one hundred millions of dollars. But it should be remembered that by far the greater part of this value has been already expressed in that of live stock, by which nearly the whole of it is consumed. It would obviously answer no good purpose to give prominence to what has been thus disposed of as an independent item in our annual productions. But straw, corn-husks, and some other substances which come under this classification, are extensively used in the minor manufactures of the country, and will bear the valuation assigned to them in the table.

The following statements show the number of manufacturing establishments in the United States, the amount of raw materials used, the capital invested, and the total value of products, according to the census of 1850.

Name of States. No. of establishments.		Value of raw material.	Capital invested.	Value of annual products.	
Maine	3,977	\$13,555,806	\$14,700,452	\$24,664,135	
New Hampshire	3, 211	12,745,466	18, 242, 114	23, 164, 503	
Vermont	1,849	4, 172, 552	5, 001, 377	8,570,920	
Massachusetts	8, 259	85, 856, 771	83, 357, 642	151, 137, 145	
Dofisheries	593	00,000,771	5, 582, 650	6,606,849	
Connecticut	3, 482	09 500 90%	23, 589, 397	45, 110, 102	
Dofisheries	252	23, 589, 397	1, 986, 300	2,004,483	
New York		104 OFF OWA		237, 597, 249	
	23, 553	134, 655, 674	99, 904, 405	39,713,586	
New Jersey	4, 108	21, 992, 186	22, 184, 730	140,050	
Dofisheries	101		109,678		
Pennsylvania.	21,595	87, 206, 377	94, 473, 810	155, 044, 010	
Delaware	531	2, 864, 607	2, 978, 945	4, 649, 296	
Maryland	3,708	17, 326, 734	14, 753, 143	32, 477, 702	
Virginia	4,741	18, 103, 433	18, 108, 793	29, 592, 019	
North Carolina	2,604	4, 805, 463	7, 252, 245	9, 111, 245	
South Carolina	1,431	2, 809, 534	6,060,565	7,076,077	
*Georgia				6, 704, 132	
*Alabama				4, 464, 006	
*Mississippi				2, 749, 838	
*Florida	103	220, 611	547,060	668, 335	
Louisiana	1,016	2, 485, 073	5, 304, 924	7, 043, 814	
*Texas		399, 734	613, 238	1, 202, 885	
*Arkansas		286, 899	338, 154	668, 815	
*Missouri		12, 408, 457	9, 194, 999	24, 250, 578	
*Kentucky		12, 458, 786	14, 236, 964	23, 273, 201	
*Tennessee		4,757,257	7, 044, 144	9, 443, 701	
*Ohio		2,700,700		62, 110, 138	
*Indiana		9, 347, 920	7,917,818	18,747,068	
*Illinois		8, 986, 142	6, 128, 282	16, 671, 273	
*Michigan		6, 221, 348	6, 443, 316	10, 729, 892	
*Iowa		2, 093, 844	1, 256, 410	3, 393, 542	
*California		2, 030, 044	1, 200, 410	60, 000, 000	
* Minnesota and other		***************************************		00,000,000	
	1			2, 342, 000	
Territories City of New York	3, 163	47,664,594	29, 407, 754	90, 382, 015	
OADY OF IXEM TOLK	. 5, 105	1 47,004,094	1 25,407,704	1 30, 002, 010	

Note.—The chief production of California is gold.

The amounts set opposite those States marked with a star are not official, and the revision of the table now going on in the Census Office may slightly vary them; but the increase or dimunition will not be so considerable as to affect, in a material manner, the deductions which it is our purpose to draw from the statement. The aggregate of the above table added to the total productions of agriculture for the past year, and the value of home manufactures, given in another part of the census statistics, will give us a condensed view of the total money value of the productions of industry, including all interests, for the year 1852. The statement is as follows:

Home manufactures, 1850*	\$27,500,000 2,750,000
Total value of productions of industry, including all	+
enumerated interests	2.932.762.642

Were it practicable to bring within the scope of a general system of statistical inquiry, like that of the late census, every variety of occupation leading to valuable results, it cannot be doubted that this grand aggregate of production in the United States would appear much larger than in the foregoing statement. Divided by the number of inhabitants, free and slave, it gives \$126 as the average annual production of each person. If we estimate the proportion of adult males as one to four of the whole population, the annual average production of each is shown to be \$504.

Statement exhibiting the value of domestic produce and manufacture exported annually from 1821 to 1852, and also the value per capita during the same period.

Years ending—	Value of domestic produce, &c., experted.	Population.	Value per capita.
September 301821	\$43,671,894	9, 960, 974	\$4 38
Do1822	49,874,079	10, 283, 757	4 85
Do 1823	47, 155, 408	10,606,540	4 44
Do1824	50, 649, 500	10, 929, 323	4 63
Do1825	66, 809, 766	11, 252, 106	5 94
Do1826	52, 449, 855	11, 574, 889	4 53
D_0	57, 878, 117	11,897,672	4 86
Do	49, 976, 632	12, 220, 455	4 09
Do 1829	55, 087, 307	12, 543, 238	4 39
Do 1830	58, 524, 878	12, 866, 020	4 54
Do1831	59, 218, 583	13, 286, 364	4 46
Do1832	61,726,529	13,706,707	4 50
Do1833	69, 950, 856	14, 127, 050	4 95
D_0	80, 623, 662	14, 547, 393	5 54
Do1835	100, 459, 481	14, 967, 736	6 71
Do1836	106, 570, 942	15, 388, 079	6 92
$D_0 \dots 1837 \dots$	94, 280, 895	15, 808, 422	5 96
Do1838	95, 560, 880	16, 228, 765	5 89
' Do	101, 625, 533	16, 649, 108	6 10
Do1840	111,660,561	17, 069, 453	6 54
Do1841	103, 636, 236	17, 612, 507	5 88
$D_0 \dots 1842 \dots$	91, 799, 242	18, 155, 561	5 05
Nine months to June 30, 1843	77, 686, 354	18, 698, 615	4 15
Year to June 301844	99, 531, 774	19, 241, 670	5 17
Do1845	98, 455, 330	19, 784, 725	4 97
Do1846	101, 718, 042	20, 327, 780	5 00
Do 1847	150, 574, 844	20, 870, 835	7 21
D ₀ 1848	130, 203, 709	21, 413, 890	6 08
Do1849	131, 710, 081	21, 956, 945	6 00
$D_0 \dots 1850 \dots$	134, 900, 233	23, 246, 301	5 80
Do1851	178, 620, 138	24 , 250, 000	7 36
Do1852	154, 930, 947	25, 000, 000	6 19

^{*} Employed in manufactures—613,000 males, 214,000 females.

S. Doc: 112.

Per cent. increase of domestic exports.

Years.	Amount.	Per cent. increase.
1821	\$43,671,894	34+
to 1830	58,524,878	94 3-5ths+
to	113,895,634	
to 850	136,946,912	20 1-5th+

Exports of domestic produce for several years, with amount to each individual.

Year.	Amount.	Population.	Amount to each individual.
1830	\$58,524,878	12,866,520	\$4 54 10-12+
1840	113,895,634	17,069,453	6 67 2-9+
1850	136,946,912	23,119,504	5 92 1-3+

The following table has never been published; it shows that the exports have doubled, *per capita*, with an increase of the population of about two hundred and forty per cent:

Statement exhibiting the value of foreign merchandise imported, re-exported, and consumed, annually, from 1821 to 1851, inclusive, and also the estimated population and rate of consumption, per capita, during the same period.

	Value o	á	tion,		
Years ending—	Imported.	Re-exported.	Consumed and on hand.	Population,	Consumption,
September 30 1821	\$62, 585, 724	\$21, 302, 488	\$41, 283, 236	9,960,974	\$4 14
1822	83, 241, 541	22, 286, 202	60, 955, 339	10, 283, 757	5 92
1823	77, 579, 267	27, 543, 622	50, 035, 645	10, 606, 540	4 71
1824	80, 549, 007	25, 337, 157	55, 211, 850	10, 929, 323	5 05
1825	96, 340, 075	32, 590, 643	63, 749, 432	11, 252, 106	5 66
1826	84, 974, 477	24, 539, 612	60, 434, 865	11,574,889	5 22
1827	79, 484, 068	23, 403, 136	56, 080, 932	11,897,672	4 71
1828	88, 509, 824	21, 595, 017	66, 914, 807	12, 220, 455	5 47
1829	74, 492, 527	16, 658, 478	57, 834, 049	12, 543, 238	4 61
1830	70, 876, 920	14, 387, 479	56, 489, 441	12,866,020	4 39
1831	103, 191, 124	20,033,526	83, 157, 598	13, 286, 364	6 25
1832	101, 029, 266	24, 039, 473	76, 989, 793	. 13, 706, 707	5 61
1833	108, 118, 311	19, 822, 735	88, 295, 576	14, 127, 050	6 25
1834	126, 521, 332	23, 312, 811	103, 208, 521	14, 547, 393	7 09
1835	149, 895, 742	20, 504, 495	129, 391, 247	14,967,736	8 64
1836	189, 980, 035	21,746,360	168, 233, 675	15, 388, 079	10 93
1837	140, 989, 217	21, 854, 962	119, 134, 255	15, 808, 422	7 53
1838	113, 717, 404	12, 452, 795	101, 264, 609	16, 228, 765	6 23
1839	162, 092, 132	17, 494, 525	144,597,607	16,649,108	8 68
1840	107, 141, 519	18, 190, 312	88, 951, 207	17, 069, 453	5 21
1841	127, 946, 177	15, 499, 081	112, 447, 096	17, 612, 507	6 38
1842	100, 162, 087	11,721,538	88, 440, 549	18, 155, 561	4 87
m'ths to June 30, 1843	64, 753, 799	6, 552, 697	58, 201, 102	18, 698, 615	3 11
Year to June 301844	108, 435, 035	11, 484, 867	96, 950, 168	19, 241, 670	5 03
1845	117, 254, 564	15, 346, 830	101, 907, 734	19, 784, 725	5 15
1846	121, 691, 797	11, 346, 623	110, 345, 174	20, 327, 780	5 42
1847	146, 545, 638	8,011,158	138, 534, 480	20, 870, 835	6 60
1848	154, 998, 928	21, 132, 315	133, 866, 613	21, 413, 890	6 25
1849	147, 857, 439	13, 088, 865	134, 768, 574	21, 956, 945	6 13
1850	178, 138, 318	14, 951, 808	163, 186, 510	23, 246, 301	7 01
1851	223, 419, 005	21,743,293	201, 675, 712	24, 250, 000	8 31
1852	252, 613, 282	17, 273, 341	195, 339, 941	24, 500, 000	8 00

Total imports consumed in the United States for several years, with amount to each individual.

Year.	Amount.	Population.	Amount to each individual.
1830	\$49,575,099	12,866,520	\$3 85½+
	107,141,519	17,069,453	6 27¾+
	164,034,033	23,119,504	7 09½+

The preceding returns, and those which immediately follow, are presented to illustrate the chief object of the report, which is to show the value of the productions, and the rapid increase of the inland interchanges between different parts of the thirty-one States, and the imper-

tance of this inland trade.

It is a natural characteristic of the North American people, influenced by that stern spirit of co-operation which has so signally contributed to their present high position, to examine with interest the results of their labor as exhibited in the advancement of its material or intellectual strength. With the progress of the former, whether of commerce, manufacture, or agriculture, there will be a corresponding

increase of a taste for literature, art, and the sciences.

It is gratifying to observe that no one interest outstrips any other interest, and that if one section of the Union is prosperous, there is a corresponding improvement in another section; and, in contemplating the happy state of the confederacy, we are proud to believe that "there has never been imagined any mode of distributing the produce of industry, so well adapted to all the wants of man, on the whole, as that of letting the share of each individual depend in the main on that individual's own energies and exertions."

The principle of private property has never yet had a fair trial in any country but this, and in no country where such conclusive proofs

are furnished that the principle should be universally applied.

Doubtless, the successful application of so just a principle is chiefly owing to two causes—the perfect equality and protection of labor, and that prohibitory clause in the constitution preventing any State from levying taxes on the produce of another State; and although it has delegated to Congress the regulation of the "commerce with foreign nations and among the several States," the federal legislature has wisely. left the latter totally unfettered and free.

Since the publication of Mr. Walker's celebrated report in 1847-'48, in which he estimated the internal trade of the country at three thousand millions, already mentioned, various causes, obvious to all, have conspired to greatly extend its area by increased facilities, and increased

its value.

The railroads have increased from five thousand five hundred miles, costing about one hundred and sixty-six millions, to thirteen thousand

three hundred miles, costing four hundred millions.

The imports and exports have increased from three hundred to over four hundred millions; the tonnage, inward and outward, from 6,700,703 to 10,591,045 tons; the tonnage owned. from 2,839,000 to 4,200,000 tons. The receipts into the treasury, exclusive of loans, have increased from twenty-six to over forty-nine millions; and the California trade, the whole of which does not appear in the published returns-the commercial phenomena of a commercial age—have also added a hundred millions to the national commerce, and, more than any event of the last forty years, have invigorated the navigating interest of the country, and to a great degree had a powerful influence over the commercial marine of the world; the whole contributing to swell the internal trade, and enabling the United States to own more than two-fifths of the tonnage of the world.

The inland trade moves in a circle: a larger part of the imports are made at the North, which pass to the South and the West—a guarater part to the latter; while the southern States furnish the chief bulk and amount of exports.

The imports and exports, and tonnage inward and outward, of the principal commercial or Atlantic States, for the years 1825, 1840,

and 1851, were as follows:

lmports.	
----------	--

<u> </u>	2207.000		
States.	1825.	1840.	1851.
Maine	\$83,311,436	\$86,599, 858	\$190,260,840
Virginia North Carolina South Carolina Georgia Louisiana Alabama	12,259,001	27,009,185	23,250,271
Florida	96,340,075	149,895,742	216,224,932
	Exports.	,	
States.	1825.	1840.	1851.
Maine	\$31,018,734	\$36,412,349	\$85,238,833
Virginia North Carolina South Carolina Georgia Louisiana	34,525,505	80,269,078	109,843,194
Alabama	66,944,745	113,895,634	196,689,718

Tonnage inward and outward.

	18	1825.		1840.		1851.	
States.	Inward.	Outward.	Inward.	Outward.	Inward.	Outward.	
Maine New Hampshire Masssachusetts Rhode Island Connecticut New York Pennsylvania Maryland Virginia North Carolina Georgia Florida Alabama Louisiana	696, 097 267, 388	684, 398 355, 492	1, 599, 859 602, 305	1, 396, 194 865, 859	3, 779, 526 717, 909	3, 491, 786 995, 875	

It is stated in another part of the report, that the resolution of the Senate referred to the trade of the lakes, and as the trade of the Mississippi valley would be justly entitled to a separate report, only general

statements would be given.

The intimate connexion between the trade of the lakes and the Mississippi river, and the construction of various lines of railroads and canals to facilitate the transportation from the river to the lakes, and from the lakes to the river, the circuit made by the chief articles of imports and exports, the importance of the basin of the rivers Ohio, Missouri, and Mississippi, the increasing value of the exports of the southern portion of the confederacy, particularly to the navigating interest of the North, render it necessary, however, to notice the chief outlets of the national products, as well as the chief inlets for the produce of other countries. Although the materials are not at hand to give the account in detail, it is hardly necessary to state that no report on the internal commerce would be acceptable to other portions of the confederacy if it failed to notice the commercial importance of the Southern Atlantic States, and their great commercial interests.

The advantages to be derived from the facilities now enjoyed by the travelling public, and for transportation of produce, are of a higher character than the additions they make to the wealth of the country. In case of an unfortunate war, particularly with a maritime power, by which our commerce with the ocean might be impeded, the means of intercommunication afforded by the rivers, canals, lakes, and railroads would still be enjoyed, and the domestic trade and commerce continue

to be comparatively unmolested.

As great interest is now manifested as to what portion of the trade of the valley of the Mississippi shall seek a southern market, the following notes, prepared in part by Mr. Mansfield, of Cincinnati, will be found very useful and interesting by those engaged in that portion of the western trade. The line of separation referred to in these notes,

as dividing the northern from the southern trade, is by no means fixed or stationary, but varies from year to year, as affected by prices in different markets, rates of freight, &c.—the general tendency, probably, being to the southward.

NOTES ON THE AMOUNT AND TENDENCY OF OHIO COMMERCE.

... The competition between the southern, or river route, and the northern, or lake route, to the ocean, has become so strong in the western States as to excite much interest as to the dividing line which separates the legitimate trade of the lakes from that of the rivers. It is desirable to know what portion of the country is best accommodated by the northern, and what by the southern route; and also to know something of the character of the articles which make up the principal trade of

the different channels respectively.

This is at first sight, a difficult question, because the lakes, and the public works connected with them, are closed for a portion of the year, during which the trade tends southwardly. But there is a certain method of determining it. Taking, for example, the arrivals and clearances at the extremities on the lake and on the Ohio river, and then comparing the result with the receipts and clearances at the intermediate ports, it will at once appear at what points the stream, southward or northward, terminates. First, then, to take the leading articles of groceries which depart from Cincinnati and Toledo, and arrive at various points on the Miami canal, we have as follows:

1. Miami Canal, 1851.

Articles.	Cincin	nati.	Toledo.		
•	Receipts.	Clearances.	Receipts.	Clearances.	
Coffeelbs. Sugardo. Molassesdo.	1,145,481 134,225	1,673,243 4,361,418 3,097,662	66,157 1,711,552 686,847	3,076,468 772,248 315,343	
Total	1,279,706	9,132,323	2,464,556	4,164,059	

This table proves that groceries are transported in the Miami country both from the lake to the river and vice versa; but that a much larger portion go from the river than from the lake. An investigation of the veceipts at the various ports of the interior proves that the country morth of Piqua, Miami county, ninety miles from Cincinnati, is supplied from Toledo, and the country south of it from Cincinnati. A point on the Miami canal, about ninety miles from Cincinnati, is therefore the point of division between the trade in foreign articles derived from the lake and that derived from the river.

The above amounts are, of course, only a part of the whole trade distributed from Cincinnati; but they are sufficient for the purposes of this inquiry

46

2. Ohio Canal, 1851.

Articles.	Clev	eland.	Portsmouth.		
	Receipts.	Clearances.	Receipts.	Clearances.	
Coffee lbs.	29,812	1,912,204	10,152	647,418	
Sugardo.	187,518 132,844	1,874,274 559,246	6,055 $7,750$	2,025,715 1,828,836	
Total	350,174	4,245,724	23,957	4,501,969	

3. Muskingum Improvement, 1851.

Har	mar.
Receipts.	Clearances.
840	633,327 986,097
	$\frac{1,557,000}{3,176,424}$
	Receipts.

It appears from an examination of the statistics of the interior ports, where their receipts are from the Ohio canal, that the supplies from the Ohio river extend as far as Newark, Licking county, about 120 miles from Portsmouth and 150 from Cleveland.

The Muskingum improvement extends to Dresden, on the Ohio canal, and the groceries are supplied from the Ohio, at Harmar, so far as to Zanesville, Muskingum county.

The following tables show the aggregate of the above articles respectively shipped through the southern and northern ports of Ohio, viz:

On the Canals.

	From Toledo and Cleveland.	From Cincinnati, Portsmouth, and Harmar.
Coffee pounds. Sugar do Molasses do	2,646,522	2,953,992 7,373,220 6,483,498
Total	9,481,436	16,810,710

It appears that groceries are supplied from the Ohio river to nearly twice the value of those forwarded from the lakes to the interior of Ohio. From consideration of these facts, it appears that the line of general separation may be drawn through Piqua, Miami county, Urbana, Champaign county, Columbus, Franklin county, Newark, Licking county, Zanesville, Muskingum county, and whence diverging to the northeast it terminates in the neighborhood of Steubenville.

If the same inquiry be extended to the exports of domestic produce from the interior of Ohio, the line of separation will be found to run nearer to the Ohio river, but across nearly the same tract of country. The following are aggregates of the receipts, in leading articles of do-

mestic produce, at the lake and river ports.

	At Cincinnati, Portsmouth, & Harmar.	At Cleveland and Toledo.
Flour, and wheat reduced to flour barrels. Pork and hams do Lard do Live hogs No Corn bushels Whiskey barrels	66,321 21,897 74,000 711,125	1,598,567 56,567 33,945 4,761 3,561,020 58,777

In reference to the public works of Ohio, therefore, the greater quantity of flour and grain is exported from the lake ports; but the larger proportion of live stock, animals, provisions, and whiskey pass through the river ports. As hogs are chiefly driven to Cincinnati, the above table expresses but a very small portion of the animal food received from the interior at the ports of Cincinnati and Portsmouth. The export trade of Cincinnati will be shown in another table. examination of the arrivals and clearances of domestic produce on the Miami canal, it appears that flour and other products are shipped to Cincinnati from Piqua or its vicinity—about 100 miles to the northward. The line of separation, in regard to the productions of Ohio, will, therefore, be found very near to the centre of the State. Nothing of domestic produce, in the immediate Ohio valley, except, perhaps, tobacco, wool, and manufactured articles, go to the lake ports. In the articles of tobacco and wool the trade almost altogether tends lakewards.

The following table of the imports of lumber, from the exterior to the interior ports, will show the tendency of that article at the present date. It must be observed, however, that the amount is a mere fraction of the whole, because the lumber imported into southern Ohio is almost exclusively brought from the Alleghany region, down the Ohio; though recently lumber has found its way through Toledo and Cleveland.

	Lumber.	Lath.	Timber.
Cleveland feet. Toledo do Cincinnati do Portsmouth do Harmar do	9,574,435 8,610,951 2,860,453 29,850 159,195	1,915,200	97,321 3,131 456
Total	21,234,884	1,915,200	100,908

It seems from this that six-sevenths of the lumber imported into the State by the public works for the use of the interior comes in by the

lake ports.

It follows, then, from the above facts, that two-thirds the coffee and six-sevenths of the lumber passing over the public works for consumption in Ohio are imported through the lake ports; but that three-fourths the sugar and molasses, and nearly all the tobacco, are imported through the river ports. Sugar and molasses, the products of Louisiana, are distributed from Cincinnati through the Northwest, even to the shores of the lakes.

Of the produce of Ohio, three-fourths of the flour and grain are exported through the lake ports, but more than three-fourths of the pork, lard, and whiskey through the ports of the Ohio river, as will be seen by reference to the principal exports of Cincinnati, as connected with

the above canal receipts.

Should the question now arise as to the comparative value of the exports of Ohio, it appears from the foregoing tables that the exports of flour, and wheat reduced to flour, amount to 2,067,029 barrels, or, reduced to grain, 10,335,145 bushels of wheat. But the exports from Sandusky, derived from a very fertile region of country, and from Milan, have in some years amounted to 600,000 barrels, including wheat reduced to flour; while there are also large exports of grain by the Pennsylvania and Ohio canal, and from various small ports on the Ohio river. The total export of wheat may therefore be set down as equivalent to fifteen millions of bushels, or to three millions of barrels of flour. In the years 1850 and 1851, the wheat crop of Ohio was equal, in the aggregate, to 65,000,000 bushels. The consumption of

two millions of people, at seven bushels each, is fourteen millions per annum. We have, then, as the result of these two years:

Consumption		
Exported	30,000,000	66
Stock on hand	7,000,000	66
' Total	65,000,000	66

It is possible that the quantity consumed may exceed, and the stock on hand fall short of, the figures assumed; but there is no time when, with an average crop of wheat and corn in Ohio, there is not a large surplus on hand to meet the demands of an export trade. If the above export of flour and wheat be compared with the results of our exports to foreign countries in 1850, it will be seen that the State of Ohio alone exports a quantity of wheat and flour equal to double the whole foreign export of 1850. On an average of seasons, Ohio now exports an amount nearly equal to the entire export of the United States!

The flour exported by the lakes is largely consumed by the manufacturing population of the Eastern States, the amount received in New England from the West being about equivalent to a million of barrels

per annum.

Of corn, Ohio probably exports five millions of bushels, and of oats

also a large quantity.

Of animal provisions, the following table exhibits a general summary, viz:

Pork, of all descriptions	300,000	barrels.
Larddo	100,000	66
Lard oil do		
Beefdo.	50,000	44

Considering the agricultural or strictly domestic produce of Ohio exported as a whole, the annexed table very nearly exhibits the entire exports of the most important articles for 1851:

Flour, and wheat reduced	3,000,000	barrels.
Corn	5,000,000	bushels.
Small grain	500,000	44
Wool	7,000,000	pounds.
Pork		barrels.
Lard	100,000	66
Lard oil		66
Beef.	50,000	66
Cheese	10,000,000	pounds.
Butter		- "
Gandles		66
Soap		6.6
Whiskey		barrels.

The market value of the above articles amounts, in round numbers, to twenty-five millions of dollars. The smaller articles, not enumerated, would bring up the total to full thirty millions. The manufactures of

Cincinnati and other towns exported to foreign countries may be set down at ten millions in addition. So that the aggregate export of things produced wholly within the State, and sold abroad, may be safely estimated at full forty millions per annum. The trade of a State, however, consists not only of its own produce, but likewise of all the articles imported, and of all the local trade from port to port. The aggregate trade of the various towns and ports of Ohio, import and export, probably amounts to one hundred and twenty millions per annum. Some idea of this may be attained by consideration of the following table of exports in the most material articles for the port of Cincinnati:

Exports of Cincinnati for 1845 and 1850, with the per cent. of increase.

	1845.	1850.	Incre	ase.
Beefbarrels	. 31,498	33,871	7 F	er ct.
Butterkegs	. 28,510	$52,\!475$	90	46
Candles boxes	3,757	$113,\!412$	2,900	66
Cheeseboxes	47,539	122,005	140	66
Coffeesacks	. 13,037	38,158	200	66
Flourbarrels	. 194,700	390,131	100	66
Irontons	. 1,238	9,776	800	66
Ironpieces	2,937	152,365	500	44
Lardkegs		*223,245		
Lard oilbarrels	1,650	26,110	1,400	46
Porkbarrels	. 71,633	224,254	200	46
Pork in bulkpounds .	404,426	4,753,953	1,000	"
Soapboxes		21,533	700	"
Sugarhhds		13,000		•
Saltbarrels		35,729		
Merchandise packages	23,603	349,181	1,400	66
Merchandisetons	2,106	10,350	400	66
Molassestons		25,080	180	66
Manufacturespieces	7,975	22,103	175	44
Tobaccohhds	. 3,950	11,978	200	66
Whiskey and liquorsbarrels	. 133,578	250,611	90	66

^{*} Decrease.

This table demonstrates that the export trade of Cincinnati has increased more than two hundred per cent. in the last five years. Its power and tendency to increase no less rapidly for many years to come is undoubted. There are many smaller articles not included in the above. The total value of exports from Cincinnati is therefore estimated at above thirty millions of dollars, and the aggregate value of its trade to be sixty millions per annum.

Of the exports from Cincinnational large part are manufactured articles,

in which Cincinnati exceeds, proportionably to its population, any town of the United States. The following table of manufactures in Cincinnati for 1840 and 1850, with their increase per cent., will show what a mass of products there are there which afford a surplus for other markets:

		1840.	1850.	Incre	ease.
	anufactures of iron, viz:				
	Boilers, engines, machinery, sugar-mills,	_			
. 0 1/-	grates, stoves, rails, &c	\$1,288,199	\$ 5,54 7 ,900	330	per ct
	anufactures of cloth and clothing, viz:				
	Bagging, sheeting, clothing, hats, caps, shirts, bonnets, &c.	7 040 450	4 405 500	100	66
2 M	anufactures of leather, viz:	1,940,450	4,427,500	130	
	Leather, boots, shoes, hose, harness, &c	748,000	2,589,650	250	66
	nufactures of wood, &c., viz:	740,000	2,000,000	200	
	Furniture, boxes, blinds, buckets, trunks, re-				
	frigerators, &c.	937,715	2,356,890	150	44
5. Ma	nufactures of grease and oil, viz:	,.	,,		
	Soap, candles, stearine, lard oil, &c	353,940	4,545,000	1,300	"
	cohol, wines, rectified spirits, &c	145,000	4,191,920	3,000	44
	nufactures of copper and tin, viz:				
	Bells, tin-ware, copper-plates, &c.	313,300	515,000	65	44
	nufactures of animal meats, viz:				
0 D.	Beef, pork, hams, pickled meats, &c		5,895,000		
9. Bo	oks and book publications	**************************************	1,246,540	200	
	rs and carriages	127,000	355,937	200	"
19 Mie	scellaneous manufactures, viz:	816,700	1,690,000	100	••
	Chemicals, tobacco, white lead, steam-				
	boats. &c	1,138,300	2,488,000	220	44
		1,150,500	A, 400,000	220	
			35,739,337	300 p	er ct.

The above classification does not include the merely mechanical work, such as carpentering, bricklaying, painting, &c., where the result is wholly local. It includes only those manufactures of which part may be exported.

At Cincinnati, the destination of the principal articles of export is as follows:

		Orleans and a-river ports.	Up-r	iver ports.	Nor	thward.
Beef	97	per cent.	1 p	per cent.	2	per cent
Corn	96	"	1	44	3	44
Flour	97	46	2	66	1	66
Lard	83	"	8	66	9	66
Pork and bacon		66	16	66	5	66
Coffee	1	"	20	66	48	66
Sugar		"	30	66	60	46
Molasses	1	"	50	46	40	66

This table demonstrates that of the produce of Ohio—beef; pork; lard, flour, and corn—nearly the whole quantity, as exported from Cincinnati, goes down the river; a small portion only up the river; and but a small fractional part northward by canal or railway. On the other hand, coffee, sugar, and molasses—productions of the South—tend northward. Sugar and molasses are carried, through Cincinnati, to the borders of the lakes; while coffee, as we have seen, principally imported from Boston, Philadelphia, and Baltimore, finds its way by the lakes to Cincinnati.

The result of the tables hereinbefore adduced is to prove that the trade of the Ohio valley originates in and is controlled by itself. All the produce of Ohio, from a line running through Piqua, Newark, Dresden, &c., tends to the Ohio valley. All the tobacco, hogs, cattle, salt, and lumber of Kentucky and Virginia, for one hundred and fifty miles south of the Ohio, tend to the Ohio river, and by that route mostly to Cincinnati. All the produce, of whatever kind, concentrated in the Ohio valley, looks for transport to the Ohio river, instead of passing northward by canal or railway—in the ratio of ten to one. The articles of sugar and molasses will, in future, be supplied to Ohio and Indiana almost exclusively by way of the Ohio river. The construction of railroads, by facilitating distribution, is augmenting that tendency, and thence the business of distributing in Cincinnati is greatly on the increase. For the same reason, much of the coffee which has heretofore been bought in the North will hereafter be imported, at first hands, from Brazil and Cuba, entered at the port of Cincinnati, and distributed by the jobbing houses of that city.

Cincinnati, being the most prominent city in the valley of the Ohio,

deserves a more specific notice.

CINCINNATI, OHIO.

This is the largest city west of the Alleghanies, and is situated on the northern bank of the Ohio, in latitude 39° 6′ 30″ north, and longitude 7° 24′ 25″ west from Washington. Its site is just opposite the mouth of the Licking river, which comes into the Ohio between Newport and Covington, Kentucky. It is distant from New Orleans about 1,450 miles; from Pittsburg, 455 miles; from Louisville, 132 miles; and from the mouth of the Ohio about 500 miles by the course of the rivers; from Baltimore, 500 miles; from Philadelphia, 600, and from New York, 650 miles, by post-route. The population in 1800 was 750 persons; in 1810, 2,540; in 1820, 9,602; in 1830, 24,831; in 1840, 46,338; and in 1850, 116,108. This exhibition of increase in population has rarely been equalled by any city on the globe; and there is very little doubt that the same, or a greater ratio of augmentation will be preserved during the present period of ten years, to elapse previous to 1860.

The numerous railways in process of construction, and already in operation, which will be tributary to her business, must have a very beneficial and prosperous effect upon her growth. The Ohio and Mississippi road, which will connect her with St. Louis, the next great western mart in point of size, by almost an air-line, cannot but be very

advantageous to her business interests, by opening to her trade a section of country which has heretofore had no access to markets of such importance as these two cities.

A full description of this and all other railway and canal routes leading to or from Cincinnati will be found in another part of this report,

devoted especially to such improvements.

The commerce of Cincinnati, as has been seen by the preceding notes on Ohio commerce, and will be more fully illustrated by the following tables, is immense, embracing almost every variety of production and manufactures. The river, at the point where the city is located, is about six hundred yards in width, and its mean annual range from low to high water is about fifty feet. In the midsummer the water is sometimes so low as almost to prevent the navigation of the river by steamers above the city; generally, however, boats of light draught can proceed to Pittsburg without much difficulty, except they may be prevented a few weeks in midwinter by floating ice.

The succeeding tables, prepared by direction of the Chamber of Commerce of Cincinnati, exhibit the commerce of the port in detail, giving the quantity and character of the articles entering into its com-

position during the period of five years past.

Imports into Cincinnati, from all sources, for 1847-'48, 1848-'49, 1849-'50, 1850-'51, 1851-'52.

Articles.	1847-'48.	1848-'49.	1849-'50.	1850-'51.	1851-'52.
Apples, greenbbls	28,674	22,109	6,445	16,934	71,182
Beefdo	659	348	801	1,101	1,609
Beeftierces		27	15	18	1,145
Baggingpieces	79,228	2,094	324		71
Barley bush	165,528	87,460	137,925	111,257	89,994
Beansdo	8,757	3,067	5,565	31,037	14,137
Butterbbls	6,625	7,721	3,674	8,259	10,203
Butter kegs	6,405	7,999	7,487	11,043	13,720
Bloomstons	2,203	9,519	2,545	2,727	4,036
Bran, &csacks	1,941	21,995	49,075	50,976	131,014
Candlesboxes	133	414	718	697	653
Cornbush	361,315	344,810	649,227	489,195	653,788
Corn mealdo	29,542	5,504	3,688	5,508	8,640
Cider bbls	2,289	4,346	453	1,047	874
Cheesecasks	164	281	97	74	46
Cheese boxes	138,800	143,265	165,940	205,444	241,753
Cotton bales	13,476	9,058	8,551	7,168	12,776
Coffeesacks	80,242	74,961	67,170	91,177	95,732
Codfishdrums	311	515	464	441	431
Cooperage pieces	179,946	147,352	201,711	146,691	135,118
Eggsboxes and bbls	4,035	4,504	2,041	5,956	10,544
Flourbbls	151,518	447,844	231,859	482,772	511,042
Featherssacks	4,467	4,908	3,432	2,858	6,716
Fishbbls	19,215	18,146	14,527	19,826	20,076
Fishkits	725	1,059	1,290	2,694	1,075
Fruit, driedbush	27,464	38,317	11,802	41,824	24,847
Greasebbls	585	878	1,169	876	1,936
Glassboxes	20,281	33,868	34,945	37,099	44,004
Glasswarepkgs	15,025	19,209	25,712	28,619	36,602
Hemp bundles & bales	15,349	11,161	12,062	13,254	18,334
Hidesloose	33,745	23,766	30,280	8,132	54,647

S. Doc. 112.

STATEMENT—Continued.

Hay bales 8 Herring boxes 4 Hogs head 49 Hops bales 197 Iron and steel pieces 197 Iron and steel bundles 34 Lard kegs 41	829 ,036 ,191 ,847 ,645 ,120 ,213 ,827 ,607 ,978 ,714 ,607 ,978 ,714 ,607 ,978 ,714 ,607 ,978 ,714 ,607 ,978 ,714 ,607 ,978 ,714 ,607 ,714 ,607 ,714 ,607 ,714 ,607 ,714 ,607 ,714 ,607 ,714 ,607 ,714 ,	22,774 12,751 2,960 52,176 29,889 1,768 45,544 48,187 6,975 4,181 61,278 837 52,991 55,893 7,427 4,317 1,423 185,723 767,421 6,178 4,267 4,267 4,267 4,317 1,423 185,723 767,421 6,178 4,267 4,267 4,380	1849-'50. 14,181 14,452 3,546 60,902 7999 186,832 55,168 2,019 49,197 34,173 63,327 9,620 4,183 56,482 5,802 308,523 4,540 54,003 41,982 83,073 5,049 6,819 1,799 191,924 27,870 7,564 2,358 43,227	25,424 12,691 3,832 111,485 756 225,039 66,809 2,570 59,413 36,848 31,087 10,399 3,377 57,537 1,465 175,138 3,370	54,906 9,270 5,148 160,668 1,591 194,107 54,078 10,111 54,733 36,047 32,283 11,384 4,434 4,434 464,817 3,162 458,703 1,958 93,132 33,220 64,189 8,305 4,547 1,843 197,868 247,400 10,333 1,987 22,501
Hay bales 8 Herring boxes 4 Hops bales 197 Hops bales 197 Iron and steel pieces 197 Iron and steel bundles 34 Iron and steel bundles 34 Iron and steel bundles 34 Lead pigs 39 Lard kegs 41 Leather bundles 6 Leather bundles 381 Leather bundles 381 Leather bundles 36 Leather bundles 381 Leather bundles 381 Merchandles 4 381 Merchandles 50 50	036 191 847 645 1120 213 827 978 714 579 068 364 115 537 308 001 999 983 618 0007 7793 420 140 828 9,28	12,751 2,960 52,176 238 187,864 29,889 1,768 45,544 28,514 48,187 6,975 4,181 6,975 4,181 52,591 55,893 7,427 4,312 3185,723 767,421 6,178 4,466 44,667	14,452 3,546 60,902 799 186,832 55,168 2,019 49,197 34,173 63,327 9,620 4,183 56,482 5,802 308,523 4,540 54,003 41,982 83,073 5,049 6,819 1,799 191,924 27,870 7,564 2,358	12,691 3,832 111,485 756 225,039 66,809 2,570 59,413 36,848 31,087 10,399 3,377 57,537 1,465 175,138 3,370 61,490 21,356 83,761 6,764 9,302 1,739 164,238 194,000 6,277 1,183	9,270 5,145 160,684 1,591 194,107 54,075 10,111 54,733 36,047 32,283 11,384 4,434 4,434 4,434 458,703 1,958 93,132 33,220 64,189 8,305 4,547 1,843 197,868 247,400 10,333 1,957 22,501
Herring	191 847 645 120 121 120 121 120 121 120 121 120 121 120 121 120 121 120 121 120 121 120	2,960 52,176 52,176 187,864 29,889 1,768 45,544 48,187 6,975 4,181 61,278 4,476 68,582 837 52,591 29,910 55,893 7,427 4,317 1,523 185,723 767,421 6,178 4,65 44,265 44,265	3,546 60,902 799 186,832 55,168 2,019 49,197 34,173 63,327 9,620 4,183 56,482 5,802 308,523 4,540 54,003 41,982 83,073 5,049 6,819 1,799 191,924 27,870 7,564 2,358	3,832 111,485 756 225,039 66,809 2,570 59,413 36,848 31,087 10,399 3,377 57,537 1,465 175,138 3,370 61,490 21,356 83,761 6,764 9,302 1,739 164,238 194,000 6,277 1,183	5,149 160,684 1,593 194,107 54,076 10,111 54,733 36,047 32,283 11,384 4,434 64,817 3,162 458,703 1,956 93,132 33,220 64,189 8,305 4,547 1,843 197,868 247,400 10,333 1,987 22,501
Hogs head 49 Hops bales 1170 and steel 197 Iron and steel bundles 34 Iron and steel bundles 34 Iron and steel bundles 39 Lard bbls 31 Lard kegs 41 Leather bundles 6 Lemons boxes 3 Lime bbls 63 Liquor hhds & pipes 381 Merchandise & sundries tons 7 Molasses bbls 51 Malt bush 7 Nails kegs 59 Oil bbls 6 Oakum bales 10 Oats bush 10 Oil cake lbs 2,811 Pork and bacon tierces Pork and bacon bbls 49 Pork, in bulk lbs 9,643 Pork, in bulk lbs 9,643	847 645 1120 213 827 607 978 827 607 978 364 364 115 557 308 001 115 5537 308 001 999 999 998 3618 007 1,7 140 140 140 140 140 140 140 140 140 140	52,176 238 187,864 29,889 1,768 45,544 48,187 6,975 4,181 61,278 4,476 68,582 29,910 55,893 7,427 4,317 1,423 185,723 185,723 167,421 6,178 4,466 44,267	60,902 799 186,832 55,168 2,019 49,197 34,173 63,327 9,620 4,183 56,482 5,802 308,523 41,982 83,073 5,049 6,819 1,799 191,924 27,870 7,564 2,358	111,485 756 225,039 66,809 2,570 59,413 36,848 31,087 10,399 3,377 57,537 1,465 175,138 3,370 61,490 21,356 83,761 6,764 9,302 1,739 164,238 194,000 1,183	160,684 1,591 194,107 54,076 10,111 54,733 36,047 32,283 11,384 4,434 64,817 3,162 458,703 1,958 93,132 33,220 64,189 8,305 4,547 1,843 197,868 247,400 10,333 1,987 22,501
Hops	645 120 1213 827 607 978 7714 579 068 364 115 537 308 001 199 999 998 618 007 177 177 177 177 177 177 177	238 187,864 29,889 1,768 45,544 28,514 48,187 6,975 4,181 61,278 4,476 68,582 837 52,591 29,910 29,910 4,317 1,423 185,723 767,421 6,178 4,466 44,267 249,380	799 186,832 55,168 2,019 49,197 34,173 63,327 9,620 4,183 56,482 5,802 308,523 4,540 54,003 41,982 83,073 5,049 6,819 1,799 191,924 27,870 7,564 2,358	756 225,039 66,809 2,570 59,413 36,848 31,087 10,399 3,377 57,537 1,465 175,138 3,370 61,490 21,356 83,761 67,64 9,302 1,739 164,238 194,000 6,277 1,183	1,591 194,107 54,075 10,111 54,733 36,047 32,283 11,384 4,434 64,817 3,162 458,703 1,958 93,132 33,220 64,189 8,305 4,547 1,843 197,868 247,400 10,333 1,987 22,501
Iron and steel	120 1213 1223 1233 1234 1234 1234 1234 1234	187,864 29,889 1,768 45,544 28,514 48,187 6,975 4,181 61,278 4,476 68,582 837 52,591 29,910 55,893 7,427 4,317 1,423 185,723 767,421 6,178 44,267 249,380	186,832 55,168 2,019 49,197 34,173 63,327 9,620 4,183 56,482 5,802 308,523 4,540 54,003 41,982 83,073 5,049 1,799 191,924 27,870 7,564 2,358	225,039 66,809 2,570 59,413 36,848 31,087 10,399 3,377 57,537 1,465 175,138 3,370 61,490 21,356 83,761 6,764 9,302 1,739 164,238 194,000 6,277 1,183	194,107 54,075 10,111 54,733 36,047 32,283 11,384 4,434 64,817 3,162 458,703 1,958 93,132 33,220 64,189 8,305 4,547 1,843 197,868 247,400 10,333 1,987 22,501
Iron and steel	213 827 978 714 579 068 364 115 537 308 001 999 983 618 007 793 420 140 828 9,2	29,889 1,768 45,544 28,514 28,514 48,187 6,975 4,181 61,278 68,582 837 52,591 29,910 55,893 7,427 4,317 1,423 185,723 767,421 6,178 4,267 249,380	55,168 2,019 49,197 34,173 63,327 9,620 4,183 56,482 5,802 308,523 4,540 54,003 41,982 83,073 5,049 6,819 1,799 191,924 27,870 7,564 2,358	66,809 2,570 59,413 36,848 31,087 10,399 3,377 57,537 1,465 175,138 3,370 61,490 21,356 83,761 6,764 9,302 1,739 164,238 194,000 6,277 1,183	54,076 10,111 54,733 36,044 32,283 11,384 4,434 64,817 3,162 458,703 1,956 93,132 33,220 64,189 8,305 4,547 1,843 197,868 247,400 10,333 1,987 22,501
Iron and steel	827 607 978 714 579 068 361 115 537 308 001 999 998 618 007 486 557 793 420 140 828 828 9,9,2	1,768 45,544 28,514 48,187 6,975 4,181 61,278 4,476 68,582 837 52,591 29,910 55,893 7,427 4,317 1,423 185,723 767,421 6,178 44,267 249,380	2,019 49,197 34,173 63,327 9,620 4,183 56,482 5,802 308,523 4,540 54,003 41,982 83,073 5,049 6,819 1,799 191,924 27,870 7,564 2,358	2,570 59,413 36,848 31,087 10,399 3,377 57,537 1,465 175,138 3,370 61,490 21,356 83,761 6,764 9,302 1,739 164,238 194,000 6,277 1,183	10,111 54,733 36,047 32,283 11,384 4,434 64,817 3,162 458,703 1,956 93,132 33,220 64,189 8,305 4,547 1,843 197,868 247,400 10,333 1,987 22,501
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Lard bbls 37 Lard kegs 41 Leather bundles 6 Lemons boxes 3 Lime bbls 63 Liquor hhds & pipes 3 Merchandise & sundries pkgs 381 Merchandise & sundries tons 7 Molasses bbls 51 Malt bush 7 Nails kegs 59 Oil bbls 60 Oranges boxes 5 Oakum bales 1 Oats bush 194 Oats bush 4 Pork and bacon hhds 4 Pork and bacon bils 69 Pork, in bulk lbs 22 Pork, in bulk lbs 22 Pig metal tons 21 Pimento & pepper bags 3 Rye bbls 22 Rope,	978 714 579 068 364 115 537 308 001 999 983 618 007 486 557 793 1,7 140 828 063 9,2	28,514 48,187 6,975 4,181 61,278 4,476 68,582 837 52,591 29,910 55,893 7,427 4,317 4,23 185,723 767,421 6,178 44,267 249,380	34,173 63,327 9,620 4,183 56,482 5,802 308,523 4,540 54,003 41,982 83,073 5,049 6,819 1,799 191,924 27,870 7,564 2,358	36,848 31,087 10,399 3,377 57,537 1,465 175,138 3,370 61,490 21,356 83,761 6,764 9,302 1,739 164,238 194,000 6,277 1,183	36,047 32,283 11,384 4,434 64,817 3,162 458,703 1,958 93,132 33,220 64,189 8,305 4,547 1,843 197,868 247,400 10,333 1,987 22,501
Lard kegs 41 Leather bundles 6 Lemons boxes 3 Lime bbls 63 Liquor hhds & pipes 381 Merchandise & sundries pkg 381 Merchandise & sundries tons 7 Molasses bbls 7 Molasses bbls 51 Malt bush 7 Nails kegs 59 Oil bbls 66 Oats boxes 5 Oakum bales 194 Oil cake lbs 194 Pork and bacon hhds 4 Pork and bacon bbls 69 Pork, in bulk lbs 29 Merchandes bbls 22 Pork and bacon bbls 22 Pork, in bulk lbs 22 Potatoes bbls 22 Rye bbls 22	714 579 618 579 618	48,187 6,975 4,181 61,278 4,476 68,582 837 52,591 29,910 55,893 7,427 4,317 1,423 185,723 767,421 6,178 4,267 249,380	63,327 9,620 4,183 56,482 5,802 308,523 4,540 54,003 41,982 83,073 5,049 1,799 191,924 27,870 7,564 2,358	31,087 10,399 3,377 57,537 1,465 175,138 3,370 61,490 21,356 83,761 6,764 9,302 1,739 164,238 194,000 6,277 1,183	32,283 11,384 4,434 64,817 3,162 458,703 1,958 93,132 33,220 64,189 8,305 4,547 1,843 197,868 247,400 10,333 1,987 22,501
Leather bundles 6 Lemons boxes 3 Lime bbls 63 Liquor hhds & pipes 381 Merchandise & sundries pkgs 381 Merchandise & sundries tons 7 Molasses bbls 51 Malt bush 7 Nails kegs 59 Oil bbls 6 Oranges boxes 5 Oakum bales 1 Oats bush 194 Oil cake lbs 194 Pork and bacon thds 4 Pork and bacon tierces 8 Pork and bacon bbls 69 Pork and bacon bbls 69 Pork and bacon bbls 22 Pork and bacon bbls 22 Pork and bacon bbls 22 Pork in bulk lbs 22 Pig metal tons 21 <td>579 068 368 3115 537 308 001 999 998 618 007 486 557 1,7 793 420 140 828 963 99,9</td> <td>6,975 4,181 61,278 4,476 68,582 837 52,591 29,910 55,893 7,427 4,317 1,423 185,723 767,421 6,178 465 44,267 249,380</td> <td>9,620 4,183 56,482 5,802 308,523 4,540 54,003 41,982 83,073 5,049 6,819 1,799 191,924 27,870 7,564 2,358</td> <td>10,399 3,377 57,537 1,465 175,138 3,370 61,490 21,356 83,761 6,764 9,302 1,739 164,238 194,000 6,277 1,183</td> <td>11,384 4,434 64,817 3,162 458,703 1,956 93,132 33,220 64,189 8,305 4,547 1,843 197,868 247,400 10,333 1,987 22,501</td>	579 068 368 3115 537 308 001 999 998 618 007 486 557 1,7 793 420 140 828 963 99,9	6,975 4,181 61,278 4,476 68,582 837 52,591 29,910 55,893 7,427 4,317 1,423 185,723 767,421 6,178 465 44,267 249,380	9,620 4,183 56,482 5,802 308,523 4,540 54,003 41,982 83,073 5,049 6,819 1,799 191,924 27,870 7,564 2,358	10,399 3,377 57,537 1,465 175,138 3,370 61,490 21,356 83,761 6,764 9,302 1,739 164,238 194,000 6,277 1,183	11,384 4,434 64,817 3,162 458,703 1,956 93,132 33,220 64,189 8,305 4,547 1,843 197,868 247,400 10,333 1,987 22,501
Lemons boxes 3 Lime bbls 63 Liquor hhds & pipes 381 Merchandise & sundries pkgs 381 Merchandise & sundries tons 7 Molasses bbls 51 Malt bush 7 Nails kegs 59 Oil bbls 6 Oranges boxes 5 Oakum bales 1 Oats bush 4 Oil cake lbs 2,811 Pork and bacon tierces 69 Pork and bacon tierces 69 Pork and bacon bbls 9,643 Pork, in bulk lbs 9,643 Potatoes bbls 22 Riye bush 11 Rosin, &c bbls 22 Rope, twine, &c pkgs 7 Rice terces 2 Sugar bbls 32	068 364 115 537 308 001 999 983 6618 007 486 557 793 1,7 140 828 063 9,2	4,181 61,278 4,476 68,582 52,591 29,910 55,893 7,427 4,317 1,423 185,723 767,421 6,178 465 44,267 249,380	4,183 56,482 5,802 308,523 4,540 54,003 41,982 83,073 5,049 6,819 1,799 191,924 27,870 7,564 2,358	3,377 57,537 1,465 175,138 3,370 61,490 21,356 83,761 6,764 9,302 1,739 164,238 194,000 6,277 1,183	4,434 64,817 3,162 458,703 1,956 93,132 33,220 64,189 8,305 4,547 1,843 197,868 247,400 10,333 1,987 22,501
Lime bbls 63 Liquor hhds & pipes 3 Merchandise & sundries yks 381 Merchandise & sundries tons 7 Molasses bbls 51 Malt bush 7 Nails kegs 59 Oil bbls 6 Oranges boxes 5 Oakum bales 1 Oats bush 194 Oats lbs 2,811 Pork and bacon hhds 4 Pork and bacon bils 69 Pork, in bulk lbs 9,643 Pork, in bulk lbs 22 Pig metal tons 21 Pig metal tons 21 Rosin, &c bbls 22 Rope, twine, &c pkgs 7 Rice terces 2 Sugar bbls 11 Sugar bbls 2	364 115 537 308 308 3001 999 983 618 007 486 557 793 1,7 140 828 828 9,2	61,278 4,476 68,582 837 52,591 29,910 55,893 7,427 4,317 1,423 185,723 767,421 6,178 465 44,267 249,380	56,482 5,802 308,523 4,540 54,003 41,982 83,073 5,049 6,819 1,799 191,924 27,870 7,564 2,358	57,537 1,465 175,138 3,370 61,490 21,356 83,761 6,764 9,302 1,739 164,238 194,000 6,277 1,183	64,817 3,162 458,703 1,958 93,132 33,220 64,189 8,305 4,547 1,843 197,868 247;400 10,333 1,987 22,501
Liquor hhds & pipes Merchandise & sundries ykgs Merchandise & sundries tons Molasses bbls Malt bush Nails kegs Oil bbls Oranges boxes Oakum bales Oats bush Oil cake lbs Pork and bacon hhds Pork and bacon bbls Pork and bacon bbls Pork, in bulk lbs Potatoes bbls Pig metal tons Pig metal tons Pimento & pepper bags Rye bbls Rasins boxes Rope, twine, &c pkgs Rice tierces Sugar hhds Sugar bbls Sugar bbls Sugar bbls Seed, flax bbls Seed, hemp do Salt 5 <td>115 537 308 001 999 983 618 007 486 557 1,7 793 1,2 420 1,2 420 1,2 420 828 063</td> <td>4,476 68,582 837 52,591 29,910 55,893 7,427 4,317 1,423 185,723 61,778 465 44,267 249,380</td> <td>5,802 308,523 4,540 54,003 41,982 83,073 5,049 1,799 191,924 27,870 7,564 2,358</td> <td>1,465 175,138 3,370 61,490 21,356 83,761 6,764 9,302 1,739 164,238 194,000 6,277 1,183</td> <td>3,162 458,703 1,958 93,132 33,220 64,189 8,305 4,547 1,843 197,868 247,400 10,333 1,987 22,501</td>	115 537 308 001 999 983 618 007 486 557 1,7 793 1,2 420 1,2 420 1,2 420 828 063	4,476 68,582 837 52,591 29,910 55,893 7,427 4,317 1,423 185,723 61,778 465 44,267 249,380	5,802 308,523 4,540 54,003 41,982 83,073 5,049 1,799 191,924 27,870 7,564 2,358	1,465 175,138 3,370 61,490 21,356 83,761 6,764 9,302 1,739 164,238 194,000 6,277 1,183	3,162 458,703 1,958 93,132 33,220 64,189 8,305 4,547 1,843 197,868 247,400 10,333 1,987 22,501
Merchandise & sundries _ pkgs 381 Merchandise & sundries _ tons 7 Molasses _ bbls 51 Malt _ bush 7 Nails _ kegs 59 Oil _ bbls 6 Oranges _ boxes 5 Oakum _ bales 1 Oats _ bush 194 Oil cake _ bush 194 Oil cake _ bush 194 Pork and bacon _ hhds 4 Pork and bacon _ bbls 69 Pork and bacon _ bbls 9,643 Pork and bacon _ bbls 22 Pork in bulk _ lbs 9,643 Pork and bacon _ bbls 22 Rigen _ bush 22 Roe, bush 22 Roe, twine, &c _ pkgs 2 Sugar _ bbls 2 Sugar _ bbls 32 Sugar _ boxes	537 308 001 999 983 618 007 486 557 17 793 420 140 828 063 9,2	68,582 837 52,591 29,910 55,893 7,427 4,317 1,423 185,723 767,421 6,178 465 44,267 249,380	308,523 4,540 54,003 41,982 83,073 5,049 6,819 1,799 191,924 27,870 7,564 2,358	175,138 3,370 61,490 21,356 83,761 6,764 9,302 1,739 164,238 194,000 6,277 1,183	458,703 1,958 93,132 33,220 64,189 8,305 4,547 1,843 197,868 247,400 10,333 1,987 22,501
Merchandise & sundries 7 Molasses bbls 51 Malt bush 7 Nails kegs 59 Oil bbls 6 Oranges boxes 5 Oakum bales 1 Oats bush 194 Oil cake lbs 2,811 Pork and bacon thds 4 Pork and bacon tierces 69 Pork and bacon bbls 69 Pork and bacon bbls 22 Pork and bacon bbls 22 Pork and bacon bbls 69 Pork in bulk lbs 9,643 Pork in bulk lbs 9,643 Potatoes bbls 22 Rige bush 24 Rose, bells 11 Raisins boxes 22 Rose, twine, &c pkgs 7 Rice terces 2 Sugar <	308 .001 .999 .983 .618 .007 .486 .557 .793 .420 .140 .828 .063 .9,2	837 52,591 29,910 55,893 7,427 4,317 1,423 185,723 767,421 6,178 465 44,267 249,380	4,540 54,003 41,982 83,073 5,049 6,819 1,799 191,924 27,870 7,564 2,358	3,370 61,490 21,356 83,761 6,764 9,302 1,739 164,238 194,000 6,277 1,183	1,958 93,132 33,220 64,189 8,305 4,547 1,843 197,868 247,400 10,333 1,987 22,501
Molasses bbls 51 Malt bush 7 Nails kegs 59 Oil bbls 6 Oranges boxes 5 Oakum bales 1 Oats bbs 194 Oats lbs 2,811 Oats lbs 2,811 Pork and bacon hhds 4 Pork and bacon bbls 69 Pork, in bulk lbs 9,643 Pora, in bulk lbs 9,643 Pork, in bulk lbs 22 Pig metal tons 21 Pimento & pepper bags 3 Rye bush 24 Rosin, &c bbls 3 Raisins boxes 22 Sugar hhds 27 Sugar bbls 3 Sugar bbls 3 Sugar bbls 3 Seed, flax bbl	.001 999 983 618 007 486 557 793 420 140 828 063 9,2	52,591 29,910 55,893 7,427 4,317 1,423 185,723 767,421 6,178 465 44,267 249,380	54,003 41,982 83,073 5,049 6,819 1,799 191,924 27,870 7,564 2,358	61,490 21,356 83,761 6,764 9,302 1,739 164,238 194,000 6,277 1,183	93,132 33,220 64,189 8,305 4,547 1,843 197,868 247,400 10,333 1,987 22,501
Malt bush 7 Nails kegs 59 Oil bbls 60 Oranges boxes 5 Oakum bales 1 Oats bush 194 Oil cake lbs 2,811 Pork and bacon hhds 4 Pork and bacon bbls 69 Pork, in bulk lbs 22 Potatoes bbls 22 Pig metal tons 21 Potatoes bbls 24 Rosin, &c bbls 3 Rye bush 24 Raisins boxes 22 Rope, twine, &c pkgs 7 Rice tierces 2 Sugar bbls 32 Seed, flax bbls 32 Seed, grass do 4 Seed, hemp do 65	999 983 618 007 486 557 1,7 1,7 420 140 828 063 9,2	29,910 55,893 7,427 4,317 1,423 185,723 767,421 6,178 465 44,267 249,380	41,982 83,073 5,049 6,819 1,799 191,924 27,870 7,564 2,358	21,356 83,761 6,764 9,302 1,739 164,238 194,000 6,277 1,183	33,220 64,189 8,305 4,547 1,848 197,868 247,400 10,333 1,987 22,501
Nails kegs 59 Oil bbls 6 Oranges boxes 5 Oakum bales 1 Oats bush 194 Oil cake lbs 2,811 Pork and bacon hhds 4 Pork and bacon tierces Pork and bacon bbls Pork and bacon bbls 69 Pork in bulk lbs 9,643 Pork in bulk lbs 9,643 Potatoes bbls 21 Pig metal tons 21 Rye bush 24 Rosin, &c bbls 11 Raisins boxes 22 Rope, twine, &c pkgs 7 Rice tierces 2 Sugar bbls 32 Sugar bbls 32 Sugar bbls 32 Seed, flax bbls 32 Seed, hemp do 4 <td>983 618 007 486 557 793 420 140 828 063 9,2</td> <td>55,893 7,427 4,317 1,423 185,723 767,421 6,178 465 44,267 249,380</td> <td>83,073 5,049 6,819 1,799 191,924 27,870 7,564 2,358</td> <td>83,761 6,764 9,302 1,739 164,238 194,000 6,277 1,183</td> <td>64,189 8,305 4,547 1,843 197,868 247,400 10,333 1,987 22,501</td>	983 618 007 486 557 793 420 140 828 063 9,2	55,893 7,427 4,317 1,423 185,723 767,421 6,178 465 44,267 249,380	83,073 5,049 6,819 1,799 191,924 27,870 7,564 2,358	83,761 6,764 9,302 1,739 164,238 194,000 6,277 1,183	64,189 8,305 4,547 1,843 197,868 247,400 10,333 1,987 22,501
Oil bbls 6 Oranges boxes 5 Oakun bales 1 Oats bush 194 Oil cake lbs 2,811 Pork and bacon hhds 4 Pork and bacon tierces 5 Pork and bacon bbls 69 Pork and bacon bbls 22 Potatoes bbls 24 Rye bush 22 Rye bbls 22 Rosen, &c. bbls 24 Rose, twine, &c. pks 2 Sugar bbls 32 </td <td>618 007 486 557 793 1,7 420 140 828 063 9,2</td> <td>7,427 4,317 1,423 185,723 767,421 6,178 465 44,267 249,380</td> <td>5,049 6,819 1,799 191,924 27,870 7,564 2,358</td> <td>6,764 9,302 1,739 164,238 194,000 6,277 1,183</td> <td>8,305 4,547 1,843 197,868 247;400 10,333 1,987 22,501</td>	618 007 486 557 793 1,7 420 140 828 063 9,2	7,427 4,317 1,423 185,723 767,421 6,178 465 44,267 249,380	5,049 6,819 1,799 191,924 27,870 7,564 2,358	6,764 9,302 1,739 164,238 194,000 6,277 1,183	8,305 4,547 1,843 197,868 247;400 10,333 1,987 22,501
Oranges boxes 5 Oakum bales 1 Oats bush 194 Oil cake lbs 2,811 Pork and bacon tierces Pork and bacon bls 4 Pork and bacon bls 9,643 Pork, in bulk lbs 22 Pork, in bulk lbs 22 Pork, in bulk lbs 22 Rye bush 21 Rye bush 24 Rosin, &c bbls 11 Raisins boxes 22 Rope, twine, &c pkgs 7 Rice terces 2 Sugar bbls 11 Sugar bbls 32 Seed, flax bbls 32 Seed, grass do 4 Seed, hemp do 65	007 486 557 793 420 140 828 063 9,2	4,317 1,423 185,723 767,421 6,178 465 44,267 249,380	6,819 1,799 191,924 27,870 7,564 2,358	9,302 1,739 164,238 194,000 6,277 1,183	4,547 1,843 197,868 247;400 10,333 1,987 22,501
Oakum bales Oats bush Oil cake lbs Pork and bacon hhds Pork and bacon bils Pork, in bulk lbs Potatoes bbls Pig metal tons Pimento & pepper bags Rye bush Rosin, &c bbls Raisins boxes Rope, twine, &c pkgs Rice tierces Sugar hhds Sugar bbls Sugar boxes Seed, flax bbls Seed, grass do Seed, hemp do Salt sacks	486 557 1 793 1,7 420 140 828 063 9,2	1,423 185,723 767,421 6,178 465 44,267 249,380	1,799 191,924 27,870 7,564 2,358	1,739 164,238 194,000 6,277 1,183	1,843 197,868 247,400 10,333 1,987 22,501
Oats bush 194 Oil cake lbs 2,811 Pork and bacon tierces Pork and bacon bbls 69 Pork and bacon bbls 9,643 Pork, in bulk lbs 9,643 Potatoes bbls 22 Primento & pepper bags 3 Rye bush 24 Rosin, &c bbls 11 Raisins boxes 22 Rope, twine, &c pkgs 7 Rice tierces 2 Sugar hhds 27 Sugar bbls 11 Sugar bbls 32 Seed, flax bbls 32 Seed, grass do 4 Seed, hemp do 65	557 1 793 1,7 420 140 828 063 9,2	185,723 767,421 6,178 465 44,267 249,380	191,924 27,870 7,564 2,358	164,238 194,000 6,277 1,183	197,868 247,400 10,333 1,987 22,501
Oil cake lbs 2,811 Pork and bacon hhds Pork and bacon tierces Pork and bacon bbls 69 Pork in bulk lbs 9,643 Potatoes bbls 22 Pig metal tons 21 Pimento & pepper bags 8k Rye bush 24 Rosin, &c bbls 11 Raisins boxes 22 Rope, twine, &c pkgs 7 Rice tierces 2 Sugar bbls 11 Sugar bbls 32 Seed, flax bbls 32 Seed, grass do 4 Seed, hemp do 65	793 1,7 420 140 828 063 9,2	767,421 6,178 465 44,267 249,380	27,870 7,564 2,358	194,000 6,277 1,183	247,400 10,333 1,987 22,501
Pork and bacon hhds Pork and bacon tierces Pork and bacon bbls Pork and bacon bbls Pork in bulk lbs Potatoes bbls Pig metal tons Pimento & pepper bags Rye bush Rosin, &c bbls Raisins boxes Rope, twine, &c pkgs Rice tierces Sugar hhds Sugar bbls Sugar boxes Seed, flax bbls Seed, grass do Seed, hemp do Salt sacks	420 140 828 063 9,2	6,178 465 44,267 249,380	7,564 2,358	6,277 1,183	10,333 1,987 22,501
Pork and bacon tierces Pork and bacon bbls Pork, in bulk lbs Pork, in bulk 29,643 Potatoes bbls Pig metal tons Pimento & pepper bags Rye bush Rosin, &c bbls Raisins boxes Rope, twine, &c pkgs 7, reces Sugar hhds Sugar bbls Sugar boxes 2, seed, flax bols 32, Seed, flax bbls Seed, grass do Seed, hemp do Salt sacks	140 828 063 9,2	465 44,267 249,380	2,358	1,183	1,987 22,501
Pork and bacon bbls 69 Pork, in bulk lbs 9,643 Potatoes bbls 22 Potatoes bbls 21 Pig metal tons 21 Pimento & pepper bags 3 Rye bush 11 Rosin, &c bbls 22 Rope, twine, &c pkgs 7 Rice terces 2 Sugar hhds 27 Sugar bbls 11 Sugar boxes 2 Seed, flax bbls 32 Seed, grass do 4 Seed, hemp do 65	828 063 9,2	44,267 249,380			22,501
Pork, in bulk lbs 9,643 Potatoes bbls 22 Pig metal tons 21 Pimento & pepper bags 3 Rye bush 24 Rosin, &c bbls 11 Raisins boxes 22 Rope, twine, &c pkgs 7 Rice tierces 2 Sugar hhds 27 Sugar bbls 11 Sugar boxes 2 Seed, flax bbls 32 Seed, grass do 4 Seed, hemp do 65 Balt sacks 65	063 9,2	249,380	43.227	31,595	
Potatoes bbls 22 Pig metal tons 21 Pimento & pepper bags 3 Rye bush 24 Rosin, &c bbls 11 Raisins boxes 22 Rope, twine, &c pkgs 7 Rice terces 2 Sugar hhds 27 Sugar bbls 11 Sugar boxes 2 seed, flax bbls 32 Seed, grass do 4 Seed, hemp do 65 dat sacks 65					
Pig metal tons 21, Pimento & pepper bags 3, Rye bush 11, Rosin, &c bbls 11, Raisins boxes 22, Rope, twine, &c pkgs 7, Rice terces 2, Sugar hhds 27, Sugar bbls 11, Sugar boxes 2, Seed, flax bbls 32, Seed, grass do 4, Seed, hemp do 65, Salt sacks 65,	439		13,257,560	14,631,330	16,532,884 20,739
Pimento & pepper bags Rye bush Rosin, &c bbls Raisins boxes Rope, twine, &c pkgs 7, r. Rice tierces Sugar hhds Sugar bbls Sugar boxes 2, seed, flax bols 32, Seed, grass do Seed, hemp do dalt sacks 65,	145	17,269	3,898	19,649	22,605
Rye bush 24, Rosin, &c bbls 11, Raisins boxes 22, Rope, twine, &c pkgs 7, Rice tierces 2, Sugar hhds 27, Sugar bbls 11, Sugar boxes 2, Seed, flax bbls 32, Seed, grass do 4, Seed, hemp do 65, Salt sacks 65,		15,612 1,257	17,211	16,110 2,027	1,425
Rosin, &c bbls 11, Raisins boxes 22, Rope, twine, &c pkgs 7, Rice tierces 2, Sugar hhds 27, Sugar bbls 11, Sugar boxes 2, Seed, flax bbls 32, Seed, grass do 4, Seed, hemp do 65, Salt sacks 65,	455	22,233	2,558	44,308	58,317
Raisins boxes 22 Rope, twine, &c pkgs 7, Rice tierces 2, Sugar hhds 27, Sugar bbls 11, Sugar boxes 2, Seed, flax bbls 32, Seed, grass do 4, Seed, hemp do 65, Salt sacks 65,		3,298	23,397	12,511	14,184
Rope, twine, &c pkgs 7, Rice tierces 2, Sugar hhds 27, Sugar bbls 11, Sugar boxes 2, Seed, flax bbls 32, Seed, grass do 4, Seed, hemp do 65, Salt sacks 65,		14,927	12,349 11,936	15,648	28,417
Rice tierces 2, Sugar hhds 27, Sugar bbls 11, Sugar boxes 2, Seed, flax bbls 32, Seed, grass do 4, Seed, hemp do 5 Salt sacks 65,	806	3,950	3,061	2,007	3,203
Sugar hhds 27, Sugar bbls 11, Sugar boxes 2, Seed, flax bbls 32, Seed, grass do 4, Seed, hemp do 5 Salt sacks 65,		3,365	3,556	4,783	3,782
Sugar bbls 11, Sugar boxes 2, Seed, flax bbls 32, Seed, grass do 4, Seed, hemp do 65, Salt sacks 65,		22,685	26,760	29,808	39,224
Sugar boxes 2, Seed, flax bbls 32, Seed, grass do 4, Seed, hemp do 65, Salt sacks 65,		7,575	13,005	18,584	15,237
Seed, flax bbls 32, Seed, grass do 4, Seed, hemp do 5 Salt saeks 65,	928	1,847	2,467	3,612	2,259
Seed, grass		22,859	15,570	20,319	48,074
Seed, hempdo Saltsacks 65,	968	5,928	4,432	4,104	10,819
Saltsacks 65,	214	510	314	68	304
		76,985	110,650	50,474	91,312
		76,496	114,107	79,358	58,020
	309	818	1,447	1,567	1,688
	931	7,412	9,802	7,821	12,810
	051	3,471	3,213	3,701	11,410
	229	1,311	887	1,697	1,996
Cobaccoboxes & kegs 14.		12,463	17,772	19,945	23,000
	173	1,829	1,225	3,682	5,930
Vines bbls. & qr. casks 2,5		2,683	6,874	3,401	4,482
	VI.	2,101	4,296	5,060	8,322
Wheat bush . 570,8	272			388,660	377,037
Woolbales 1,9	272 313 36	85,388	322,699		4,562
Whiskey bbls. 170,4	272 313 30 343	85,388 1,686			4,000
Zarn, cottonpkgs 6,4	272 313 30 343 436 16		322,699 1,277 186,678	1,866 244,014	272,788
Yarn, cottonbales 288,0	272 313 38 343 136 16	1,686	1,277	1,866	

It will be observed that the articles enumerated in the foregoing table comprise the whole importations into Cincinnati, whether from up the river, down the river, by canal or railway, by land or water.

The value of these imports, independent of the item of merchandise and sundries, was estimated for the year ending August 31, 1852, at the sum of \$24,715,331. Estimating merchandise upon the basis of valuation used in the Miami and other districts on the lakes, would give a farther amount of \$32,146,400—making the aggregate import commerce amount to \$56,861,731.

Statement of the principal articles of export from Cincinnati by all land and water routes for the years 1847-'48, 1848-'49, 1849-'50, 1850-'51, 1851-'52.

Articles	1847–'48.	1848–'49.	1849–'50.	1850–'51.	1851-'52.
Apples, greenbbls	8,512	5,824	3,519	8,064	7,223
Alcoholdo	1,771	3,022	3,302	5,038	7,607
Beefdo	14,811	12,523	7,558	19,937	20,015
Beef tierces	3,615	9,332	6,625	9,356	9,023
Beansbbls	1,097	1,680	2,469	1,832	1,611
Broomsdozen	3,760	3,333	7,355	8,735	7,934
Butterbbls	2,937	1,272	964	3,258	3,006
Butterkegs	28,315	24,398	24,393	36,185	31,395
Bran, &csacks	3,761	233	4,322	5,789	10,543
Baggingpieces	12,632	15,910	9,353	8,212	12,918
Cornsacks	53,021	7,176	57,248	20,137	51,231
Corn mealbbls	19,999	3,060	1,179	2,148	928
Cheese casks	30	121	106	25	71
Cheese boxes	59,374	55,134	86,902	121,755	150,689
Candles do	29,189	39,640	67,447	113,412	121,727
Cattlehead	733	97	30	440	1,840
Cotton bales	6,123	4,009	1,896	5,132	8,810
Coffeesacks	18,581	18,909	22,030	38,158	43,654
Cooperagepieces	36,924	55,617	73,637	63,804	64,279
Eggsbbls	9,450	5,229	4,246	7,258	9,160
Flourdo	201,011	267,420	98,908	390,131	408,211
Featherssacks	3,736	3,824	5,380	4,095	7,876
Fruit, driedbush	5,074	8,317	1,850	17,480	6,413
Greasebbls	4,268	6,922	7,597	4,426	4,732
Grass seedbbls	2,431	2,387	2,528	2,830	7,587
Horseshead	1,268	378	468	599	944
Haybales	94	1,040	564	638	554
Hempdo	5,659	2,198	1,164	3,112	3,616
Hideslbs	60,880	73,209	62,865	48,079	142,823
HidesNo	9,024	7,731	11,225	12,459	31,775
Iron pieces	127,193	43,025	54,075	108,255	172,409
Ironbundles	17,351	7,081	36,245	44,110	36,368
Irontons	6,916	6,270	5,767	9,776	11,329
Lard bbls	81,679	37,521	38,192	30,391	47,862
Lard kegs	208,696	130,509	170,167	71,300	115,845
Lard oilsbbls	8,277	9,550	16,984	26,110	24,830
Linseeddo	3,878	3,020	4,879	7,881	9,377
Molasses do	18,332	17,750	25,878	25,098	48,866
Oil caketons	4,397	2,274	743	963	1,601
Oatssacks	41,675	212	5,023	11,707	2,718
Potatoesbbls	15,687	7,073	5,283	19,823	23,844
Pork and baconhhds	37,162	39,470	23,529	30,220	43,933
Pork and bacontierces	8,862	10,930	22,477	20,762	34,398
Pork and baconbbls	196,186	186,192	193,581	122,086	131,560
Pork, in bulklbs			13,448	2,974	3,912,943

STATEMENT—Continued.

Articles.	1847–'48.	1848'49.	1849-'50.	1850-'51.	1851-'52.
Porkboxes	759,188	924,256	2,310,699	4,753,953	2,372
Rope, &cpkgs	5,556	4,369	3,451	6,272	9,365
Soapboxes	11,095	11,303	17,443	21,553	28,033
Sheephead	1,400	522		460	45
Sugarhhds	11,559	8,443	9,650	13,000	20,360
Saltbbls	39,656	39,990	29,509	28,585	27,022
Salt sacks	5,057	5,403	8,301	7,144	16,314
Seed, flaxbbls	2,785	808	333	443	3,520
Merchandisepkgs	341,363	210,049	615,641	349,181	656,793
Merchandise tons	16,848	21,466	11,109	10,350	11,241
Liquorsbbls	9,364	10,913	11,798	19,297	49,348
Manufacturespieces	42,412	94,904	56,810	22,103	66,200
Producepkgs	28,822	17,609	10,327	13,958	42,333
Starchboxes	8,177	7,904	9,491	14,109	18,293
Tallowbbls	5,682	4,975	4,311	5,927	3,039
Tobacco kegs and boxes	9,352	7,497	6,905	18,345	24,761
Tobaccohhds	3,812	3,309	4,847	2,856	10,821
Tobaccobales	123	126	77	160	629
Vinegarbbls	2,753	1,288	2,404	3,756	5,965
Whiskey bbls	186,509	136,911	179,540	231,324	276,124
Wool bales	2,298	1,109	2,156	2,725	3,404
Woollbs	7,037	10,230	16,841	4,836	2,972
White leadkegs		ļ. 	40,294	50,857	65,514
Pieces of castingsNo			54,399	36,266	33,942
Pieces of castingstons			2,385	1,121	1,629

A glance at the table of exports will satisfy the observer that the exports are of the same articles as the imports, and that the major part of the property here noted is merely in transitu, passing through the commercial houses of Cincinnati on its way to a northern or southern destination.

Many articles, it will also be observed, are much modified in their shape during their stay—such as pork, lard, whiskey, tallow, &c. These tables possess much interest, as showing the course of trade at this point, as well as exhibiting its nature and character more fully than can be otherwise done.

PITTSBURG, PENNSYLVANIA.

The city of Pittsburg is situated in the western part of Pennsylvania, at the head of navigation on the Ohio river, which is formed at that point by the union of the waters of the Alleghany and Monongahela. It is in 42° 30′ north latitude, and 80° 2′ west longitude; 230 miles from Baltimore, and 297 from Philadelphia; 200 miles from Harrisburg, and 226 from Washington. It had a population, with its suburbs, in 1800, of 1,565 persons, and in 1850, of about 83,000. The enumeration of the inhabitants of the city proper was, in 1810, 4,768; in 1820, 7,248; in 1830, 12,542; in 1840, 21,115; and in 1850, with its suburbs, 83,000. This number for 1850 includes Alleghany city, of upwards of 20,000 inhabitants, and some smaller places in the vicinity. Alleghany county, of which Pittsburg is the principal town, had a pop-

ulation, in 1850, of 138,098, having gained, since 1840, nearly 57,000. In this county a larger capital is invested in iron manufactures than in any other county in the State, which is pretty good evidence that, at present at least, it offers greater inducements to that branch of industry than any other point. Except at short periods of very dry seasons, the Ohio is navigable to Pittsburg by boats of light draught. It is not, however, navigable for boats of the largest class during any considerable portion of the season. When the spring freshets occur, there is deep water; but the boats built at Pittsburg are adapted to the lowest possible draught, so that they may transact business nearly the whole year. At times, in severe winters, there is sufficient floating ice in the upper Ohio to impede navigation for a few days. The principal harbor is furnished by the Monongahela river, which has a better depth of water than the Alleghany. The city lies chiefly between the two. It has rather a pleasant site, and is surrounded with hills of bituminous coal, which can be quarried and delivered in the city at a trifling expense. It is to this fact, and the close proximity of good iron ores, that Pittsburg owes her great growth in manufactures. Pittsburg is the great entrepôt of western Pennsylvania, from the Ohio and Mississippi basin and from the lakes. The Ohio river gives her an eligible connexion with the first, and its trade; while the Beaver and Erie and Ohio canals give her access to the latter; and the Pennsylvania canal, from Johnstown, gives her the command of the principal portion of the trade of the State west of the Alleghanies. Besides these connexions, however, Pittsburg is about to reap great benefits from numerous railway projects, which will soon be in operation in various portions of western Pennsylvania. These are spoken of pretty fully in another department of this report, and it is therefore unnecessary to describe them under this head. One of the most important of all these projects is the Pittsburg and Olean railway, which will pass through some of the best agricultural counties in the State, but which heretofore have not had access to a market, sufficiently expeditious to develop their rich and varied resources. To connect with the route just mentioned, a road is about to be built from Buffalo, at the foot of Lake Erie, to Olean. This road will connect the western termini of the Pennsylvania canals with the western termini of the New York canals, and the head of Ohio navigation with the great lake port at the eastern terminus of navigation on Lake Erie. Buffalo will have access also to the coal and iron of Pittsburg and other portions of Pennsylvania by a direct route, and by a mode, too, which enjoys superior advantages over all others in carrying coal. Railway tracks may be laid direct from the city to the mine, and follow up the quarry indefinitely, perhaps, so that by such a mode no transhipment or cartage is required; but, with water communication, it cannot be done so easily. There, coal must be carted from mine to boat, and when arrived at the place of destination, instead of being dumped right from the cars into the coal-yard, as upon railways, it must be raised out of boats and carted away to the yard. Perhaps coal and other minerals or ores are the only kind of heavy articles of which it can be said, with truth, that they may be transported more cheaply by railway than by water. The munufactures and commerce of Pittsburg are immense; but no returns, later than those of the census of 1850, are at

hand, by which to exhibit the exact value of the former, and the commercial returns are but indifferently kept at any time. Below, such authentic data are presented as could be procured indicative of the character and extent of each.

In 1840 there were in operation in Pittsburg and Alleghany city thirty-two furnaces and forges, with a capital of \$1,437,000; the total capital employed in manufactures was stated at \$2,784,594. The ton-

nage of the port, in 1840, was estimated at 12,000 tons.

In 1850, according to the returns of the United States census, Alleghany county had manufactures of all kinds employing capital, and yielding annual products as follows:

	No. of manufac- tories.	Capital invested.	Value of material.	Hands em- ployed	Value of annual product.
Pittsburg	819 120 328	\$5,944,383 1,469,790 3,441,721	\$5,677,890 1,156,018 2,590,498	8, 436 1, 817 4, 400	\$10, 038, 721 1, 844, 706 4, 802, 605
· Total	1, 267	10, 855, 894	9, 424, 406	14, 653	16, 686, 032

The great bulk of the above aggregate of nearly seventeen million dollars of the product of industry is made up of manufactures of various kinds of iron, steel, nails, glass, cotton, clothing, boots and shoes, cabinet-ware, whiskey, flour, and provision packing. Iron, of course, takes the lead, and enters into almost all kinds of manufactures to a greater or

less degree.

It is proper to remark here, that little reliance is to be placed upon the accuracy of census returns, generally, in matters of business which relate to the actual substance of men so intimately as the above queries indicate. Various motives instigate different persons to give replies susceptible of constructions very wide of the mark aimed at by the government-sometimes above, perhaps, but generally very far below the real value of the property or business undergoing investigation. Business men are proverbially jealous of all intermeddling in their affairs; and so, however good the object of the meddler may be, or how innocent soever the instrument employed, the replies are usually so colored, as it is supposed will best subserve the interests of their maker. Hence, such returns should be used under a full view of the circumstances and with many grains of allowance. In the case of Pittsburg and vicinity, all commercial returns, lately compiled, present very different results from those of the census. That city is well known to be one of the most prominent in all the western valleys for the construction of steamers—both of wood and iron—an interest which does not fully appear in the census returns. It is said that the number of steamers built at this place, during a series of years, will average about one per Supposing this statement to be correct, and that the value of the machinery and joiner-work was included under those heads, which is hardly probable, there is still the cost of material and labor required to construct fifty-two hulls, unaccounted for, which, at the moderate average valuation of ten thousand dollars each, would amount to five hun-

dred and twenty thousand dollars.

This is but a single item; and it is not at all improbable that many more might be cited, less important to be sure, but still capable of adding their quota to the general aggregate. In western Pennsylvaniathat is, in the twenty-two counties west of the Alleghanies—there were different varieties of iron works in thirteen of the counties, to the number of one hundred and forty, involving the investment of \$6,887,376. The principal, and, in fact, almost the only accessible market for the products of this immense capital, is Pittsburg. During late years, it is well known many of them have remained idle, owing to the low, unremunerating prices of iron. But the late advance of prices in Europe, and the present high rates, are stimulating this important interest, and inviting capital, and labor to engage in it, with good prospects of an adequate reward. Pittsburg must, therefore, soon reap a rich harvest in the augmentation of her traffic from this source. Pittsburg, however, is not entirely dependent on the suburban counties for her iron manu-There are in the city fifteen rolling mills, having a capacity for making 49,200 tons of bar, rod, hoop, sheet, and boiler iron, nails and spikes, and bar and sheet steel, annually. Of the above fifteen works, six are employed in the conversion of steel; of which they made, in 1850, 6,078 tons. In the same works there were 205 nail machines, capable of turning out 1,000 kegs of 100 lbs. each, or an aggregate of 10,250 The aggregate value of the products of these fifteen works is estimated at \$3,425,000.

The pig iron consumed in these and similar manufactories is supplied by the foundries located upon the several rivers which communicate with the mountainous districts. The ore is principally furnished to the foundries by the neighboring farmers during the winter season, when their labors are not required in agricultural occupations. Digging the ore, and delivering it to the furnaces; felling trees, and converting the wood which is unfit to transform into lumber, into charcoal, for the use of the furnaces, and raising produce for the subsistence of the laborers employed in the manufacture of iron, afford abundant and profitable employment to the agriculturists of the surrounding country, and contribute largely to the trade and commerce of Pittsburg.

The manufacture of glass is carried on by thirty-three different establishments in this city, which is scarcely less noted for the quantity and variety of this article, annually classed among its exports, than for

the larger and more valuable interest just described.

These remarks are intended to convey some idea of the principal manufacturing, and consequent commercial, interests of Pittsburg, as now in progress; but it may be well to add, that they may be extended almost indefinitely. There is no known limit to their capacity, or to the elements necessary for their augmentation. Wood, coal, ores, and agricultural resources, all abound in the utmost profusion, and at the greatest possible convenience. All that is wanting to constitute Pittsburg the "Birmingham" of the American continent is labor.

The commercial interests of Pittsburg are hardly less important than the manufacturing. The enrolled tonnage of the port in 1851 was about

17,000 tons; consisting of 112 steamers, employing officers and crews of 2,588 persons, and carrying 466,661 passengers. Of the property carried on the river steamers, either as to amount, character, or quantity, no returns are at hand, and there is no very satisfactory mode of ascertaining its value. The best mode of ascertaining its character which now presents itself is by the examination of the returns of the canal commerce of Pittsburg, as made to the commissioners of the State works.

Comparative statement exhibiting the exports by canal of some of the leading articles during three seasons.

Articles.	1852.	1847.	1846.
Cotton lbs. Hemp do. Tobacco, unmanufactured, do. Groceries do. Hardware, cutlery do. lron—pig do. " castings do. " blooms do. Cast steel do. Lead do. Nails and spikes do. Bacon do. Beef and pork bbls. Butter lbs. Flour bbls.	1,670,922 1,165,057 20,490,918 1,724,070 433,669 16,557,572 607,995 411,620 7,361,436 5,000 3,033,036 39,586,694 10,367 434,495	1,056,138 3,311,618 14,777,059 1,978,822 246,897 65,537 250,910 13,836 549,416 188,078 51,760 12,713,427 41,225 747,645 297,940	1,000,971 1,287,886 24,696,742 1,571,889 239,353 2,675,341 333,702 319,736 325,085 82,732 21,661,236 19,620 800,265 156,412
Lard and lard oillbs Tallowdo	5,995,693 865,509	5,319,378 62,946	2,929,286 291,313

This and the following tables include the amount of the articles specified, moved from and received at Pittsburg on all the public improvements during the years named.

Comparative statement, showing some of the leading articles imported into - Pittsburg, by canal, during the years named, each ending December 31.

- Articles.	1852.	1847.	1846.
Produce not specifiedlbs. Oats bushels. Leather lbs. Coffee do Dry goods do Groceries do	358,231 43,087 237,616 17,102,061 36,117,244 17,885,702	1,257,620 21,360 312,239 9,927,605 23,201,074 7,833,925	871,500 19,080 386,225 10,290,993 12,651,\$18 6,923,856
HardwaredoIron—pigdo " castingsdo " bloomsdo " bar and sheetdo Nails and spikeslbs Fishbbls	17,457,753 20,225,558 814,300 14,232,693 15,292,015 156,500 32,644	14,501,693 21,979,353 124,662 14,942,390 4 397 15,886,711 19,926	$\left\{ \begin{array}{c} 10,522,463 \\ 15,410,661 \\ 13,890,707 \\ 2,833,879 \\ 575,402 \\ 19,600 \end{array} \right.$

On the average, these figures indicate a very gratifying increase in the canal commerce of the city, but especially in the iron trade for 1852. In this fact, and in the greatly increased importations of dry goods and groceries, may be seen the evidence of the stimulation which the advanced prices have already imparted to the iron manufactures.

Statement showing the imports and exports by canals, at Pittsburg, during the year ending December 31, 1852.

Articles.	Exports.	Imports.	
*			
Agricultural products, not specified lbs.	5 106,651	358,231	
Barleybushels	1,906	1,475	
Bran and shipstuffsdo	1,951	19,670	
Ryedo	902	4,309	
Corn	400	1,137	
Cotton	1.607,922		
Hay tons.	5 8	73	
Hemplbs	1,165,057	542,600	
Dried fruitdo	13,262	43,087	
Oatsbushels	311	1	
Ginseng and beeswaxlbs	277,634		
Hogs' hairdo	494,064]	
Seedsbushels	3,270	817	
Tobacco, unmanufacturedlbs	20,490,918	75,800	

STATEMENT—Continued.

	<u> </u>		
Articles.		Exports.	Imports.
Wheatb	nshels	9,839	. 4
Deer and buffalo skins	lhs	288,048	
Feathers	do	390,835	
Furs and peltries		197,319	
Dry hides	do	190,258	26,000
Leather	do	522,412	237,676
Wool		4,108,694	29,540
Bark.		170	813
Boards and plank		235,272	144,080
		6,500	21,500
Hoop-poles		149,400	21,500
Laths, less than 5 feet	do.	60,000	6,000
Shingles	do	5,000	6,250
Staves		22	2
Wood.			2,603,066
Boots, shoes, and hats	de de	2,836	· · · ·
Drugs and medicines	00	186,988	424,900
Dry goods		412,986	36,117,244
Dye-stuffs.		5,385	140,400
Earthenware		68,731	4,746,790
Glassware		1,075,705	800
Groceries	do	1,724,070	34,987,763
Hardware and cutlery	do	433,369	17,457,773
Liquors, foreign	.gaus.	3,164	4,965
Paints	lbs	33,728	200,200
Cordage and bagging	do	82,883	150,500
Salt	ushels.	158,437	96,450
Stoneware	lbs	6,753	0.400.400
Tobacco, manufactured	do	17,000	2,132,400
Whiskey		779,877	
Ashes		285,957	6,929,875
Coal, mineral	.tons	9,415	4
Copper	lbs	91,653	131,600
Iron, pig	do	16,557,572	20,255,558
" castings	do	607,995	814,300
" blooms and anchors		411,620	14,232,693
" bars and sheets	do	7,364,436	15,292,015
Lead, bars and pigs	do	5,000	4,500
Nails and spikes	do	3,033,036	156,500
Steel	do	23,221	341,500
Tin	do		1,663,800
Bacon	do	39,586,694	5,000
Beef and pork	.bbls	10,367	
Butter	lbs	434,495	
Cheese	J.		9 700
Fish	ao	399,571	3,700

STATEMENT—Continued.

Articles.	Exports.	Imports.	
Flourbbls	236,904	1,048	
Lard and lard oillbs.	5,995,628	1,010	
Dried beef do	30.143		
Tallow and candlesdo	365,509		
Bricknumber.	600	345,395	
Burr and mill stones	8,600	222,706	
Limebushels	4,625		
Marblelbs	5,276	1,217,600	
Slate for roofingdo		1,440,800	
Stone perches	1.741	125	
Agricultural implementslbs	21,401	65,580	
Furnituredo	234,052	447,103	
Oils (except lard)galls	24,299	34,970	
Paper and bookslbs	137,152	1,087,093	
Ragsdo	951,005	20,717	
Sundries do		1,964,308	
Soap-stonedo		32,000	
Brimstonedo		1,750,500	
Spanish whitingdo		339,600	
Boats clearednumber	4,826		
Passengers miles travelled		2,787,179	
Amount of tolls collecteddollars	208,933		

It must be remembered, that while these tables embrace all articles imported and exported on the State works, they show nothing of the exports of manufactures or receipts of goods and produce by the Ohio river. Pittsburg has virtually a canal connexion with Cleveland and Erie, on the lake, which contributes largely to her trade, and opens to her iron manufactures the lake markets. She is also in communication with Cleveland and Chicago by railway. But her river commerce is also of immense value. Some idea may be gained of its magnitude from the fact that, during the year 1852, no less than sixty-nine steamers were constructed at that point, of an aggregate of 15,000 tons, or an average of 213 tons each. And all this tonnage, besides that built at other points below, finds sufficient and lucrative employment; if not in the Pittsburg trade directly, then at points below.

LOUISVILLE, KENTUCKY.

Louisville is situated on the southern bank of the Ohio river, near the falls, in latitude 38° 3′ north, and longitude 85° 30′ west, 52 miles from Frankfort, 1,400 from New Orleans, 600 from St. Louis, 650 from Pittsburg by water, and 596 from Washington.

This is the commercial city of Kentucky, and one of the five great places in the valley of the Mississippi. Situated at the falls of the

Ohio—the only great obstraction in a navigation of 2,100 miles from the Alleghany river to the Gulf of Mexico—it has, in this very circumstance, some great commercial advantages. One of these is, that, except at high water, which occurs but at short periods, the largest class of steamboats seldom ascend above that point. It is also naturally the mart of an extensive and fertile country southwest of it, and also of a portion of Indiana on the north. The country immediately around the "falls" is also fertile, supplying an abundance of market products for a large population. Its growth has been more moderate than that of Cincinnati and St. Louis, but it has been steady; and the same causes which resulted in its rise will continue to operate for a century to come. The following are the most important statistics of this city:

1. Growth and population.

Years.	Population.	Increment.	Ratio.
In 1800	600	P 10.0	
In 1810	1,300 4,000	700 2,700	115 per cent 208 per cent
In 1830	10,090	6,090	152 per cent
In 1840	21,000	10,910	109 per cent
In 1850	43,217	22,217	105 per cent

The population of Louisville (in 1852) is 51,726, showing just about the same rate of increase—10 per cent. per annum. In 1860, at this rate, Louisville will contain about 90,000 inhabitants. The neighboring town of New Albany (Indiana) is quite a large place, and will, doubtless, continue to grow. So, also, Jeffersonville (opposite Louisville) will be a town of considerable importance.

2. Commerce.

In Mr. Casseday's History of Louisville, the commercial business of Louisville is represented thus:

1. Groceries.—The principal imports of Louisville, in groceries, &c., were:

Sugar	15,615 hhds.
Molasses	17,500 bbls.
Refined sugar	
Coffee	42,500 bags.
Rice	
Cheese	25,250 boxes.
Flour.	\$0,650 bbls.
Salt	
Salt, Turk's island	50,525 bags.
Bagging	70,160 pieces.
Rope	65,350 coils.

The value of these was estimated at ten million six hundred thousand dollars.

2. Dry goods.—The aggregate annual sales of dry goods are estimated at five million eight hundred and fifty-three thousand dollars.

3. Hardware, queensware, saddlery, &c.—The aggregate of other sales of merchandise amounts to three million eight hundred and sixty-six thousand dollars.

3. Pork business.

The number of hogs put up this season in Louisville, New Albany, and Jeffersonville, round the "falls," is estimated at 275,000, which shows a large and increasing business. A large number of the farmers of Kentucky drive their hogs to the Louisville market; and, in the last two or three years, the business has been extended.

4. Steamboats and navigation.

Louisville embarked in the steamboat business at a very early day, and still employs a large number of steam-vessels. In the year 1851 (vide United States Steam Report) there were sixty-one steam-vessels registered at Louisville, carrying 15,180 tons.

A large number of steamboats are annually built at Louisville and

New Albany.

5. Manufactures.

Louisville is a commercial, and not a manufacturing town. Hence, its manufacturing establishments are small as compared with Pittsburg and Cincinnati. Yet, they make, in the aggregate, a large amount. The following are the principal:

	Number.	Hands.	Product.
And to			
Foundries	15	930	\$1,392,200
Soap and candles	6 -	5 9	409,000
Bagging	3	120	184,000
Breweries		30	108,600
Cotton and wool	3	135	173,500
Clothing	45	1,157	941,500
Feed and flour mills		47	283,800
Furniture	25	446	638,000
Glass	1	50	50,000
Oil	3	16	140,000
Paper		36	113,000
Rope	11	166	460,000
Tobacco, &c.	82	1,050	1,347,500
Leather	9	64	176,000
	1		

The manufactures of Louisville (exclusive of mere mechanical labor) probably amount in value to six millions of dollars per annum—certainly a very good foundation for more extensive operations.

6. Railroads.

Louisville will, in the course of two or three years, have an extensive system of railways. The principal lines will be as follows, viz:

1. Lexington and Louisville railroad, finished; and will connect at Lexington with numerous other lines.

2. Louisville and Nashville line. This will connect her with the

entire net-work of southern railroads.

3. Louisville and Cincinnati railroad; which will connect her with all the northeastern railroads.

4. Jeffersonville and Columbus line; which will connect at Indian-

apolis with all the northern, Indiana, and Michigan lines.

5. New Albany, Salem, and Michigan city line. This will connect, at Orleans, with the Ohio and Mississippi railroad, and thus make a continuous line to St. Louis, and will be continued north to Michigan city and Chicago, Illinois.

These railroads, when completed, will connect Louisville with the most distant parts of the Union, and enable her to avail herself of her

great commercial advantages.

Louisville is situated in the centre of a large district of level and rich land. Its site for building is almost indefinite. Provisions are cheap; and its position for commerce one of the best in the interior of the United States. Its growth is not so rapid as that of some places, but is very uniform; so that the growth in future may be very certainly counted upon at the same rate. Allowing for some decrease in the ratio of growth, and it will probably, in half a century, have half a million of inhabitants.

A statement recently published shows that there are navigating the Ohio and Mississippi rivers an aggregate of 269 steamers, measuring 60,792 tons, and which are valued at \$3,895,000, that can pass through the present locks in the canal around the rapids at Louisville. There are also navigating the same rivers 76 steamers, measuring 48,052 tons, and valued at \$3,714,000, which are too large to pass through those locks, and therefore cannot participate in the trade of the upper Ohio, being nearly one-half the valuation of the steam stock engaged on those waters.

Valuation, in 1850, of the cities named.

	Estimated.	True.
St. Louis Cincinnati Louisville	,010,000	\$50,000,000 49,310,925 31,533,904

ST. LOUIS, MISSOURI.

Lying upon the bank of the finest river on the continent, in latitude 38° 37′ 28" north, and longitude 90° 15′ 30" west from Greenwich, and backed by untold acres of lands, rich in all the elements of agriculture, forests, and mines, which may be made tributary to her commerce, St. Louis is entitled to important consideration in the investigation of commercial affairs on the western rivers. Having already reached an enviable position among her sister cities, she is looking westward with a system of railways intended not only to bring all the rich agricultural and mineral treasures of the Missouri basin into her markets, but eventually to extend beyond the Rocky ridge to the valley of the Great Salt lake, and still further onward to the golden shores of the Pacific ocean. Though these ultimate results are some years distant, yet a glance at the accompanying map will satisfy any one that a full development of the immense resources of that portion of the Mississippi valley north and west of St. Louis, and most of which has not as yet been reduced to the first stages of culture, but must sooner or later pay its tribute to the trade and commerce of St. Louis, will be sufficient to gratify the most sanguine expectations of those engaged in pushing forward the improvements tending to such an end. Whether these railways are extended beyond the Rocky mountains or not, therefore, there is a territory belonging to the great valley which can scarcely avoid becoming tributary to the business of this city, much larger and more prolific of all the elements of wealth than can be found adjacent to any other city in the West. This fact alone is decisive of the future greatness of St. Louis, provided she puts forth her energies towards the progress of the means for the exhumation of the resources of this country. Her connexions with eastern cities, through Cincinnati and Chicago, are already decided upon and secured beyond contingency, as will be seen by reference to the description of canals and railways. This is now one of the most important of the river-ports. Surrounded

by an extensive back country of unsurpassed fertility, well watered and endowed with all the advantages requisite to support a dense and thriving population, St. Louis bids fair to become, at no distant day, one of the first cities in the United States in point of population and commercial wealth. It is situated on the western shore of the Mississippi river, about 196 miles above the mouth of the Ohio, 20 miles below the mouth of the Missouri, its principal affluent, and 40 miles below that of the Illinois. Still further northward the Fever, the Wisconsin, and other rivers from the country eastward, and the Des Moines and Iowa, with some less notable streams from the west, fall into the Mississippi, conveying the rich products of the extensive prairie lands on their borders to the markets of St. Louis. Here these products are usually exchanged for merchandise and supplies necessary to the settlement and subsistence of a new country. Many furs are also brought down these various streams to St. Louis, and exchanged for the goods and supplies which constitute the stock in trade of the western trapper and the Indian trader. Above that city these waters are navigable only by the lighter draught or smaller class of boats, while below it the large and splendid New Orleans packets find their rapidly increasing trade. These facts involve the necessity of a

transhipment of almost the entire bulk of produce and merchandise arriving at St. Louis, and intended for points either above or below that city, before it can proceed to its destination; and St. Louis is thus constituted the great receiving and distributing depot for all the upper country of the Mississippi and Missouri basins. To the vastness of this country, therefore, the immense fertility of its soil, and its rich mineral resources, inducing an inexhaustible tide of immigration, does St. Louis owe her late rapid growth in population and prosperity.

The city is one of the oldest French trading and military posts in the Mississippi valley, and has been looked upon for many years as the key to the great territory to which we have referred; but, until the last twenty years, its progress was very slow. In 1840 it could claim but 16,469 inhabitants, whereas in 1850 it numbered a population of no less than 82,744 souls, showing an increase of 66,000 souls, and an average rate of duplication once in four years. She has, moreover, grown much more rapidly during the last ten years than at any former period. Thus, in 1800, St. Louis had 2,000 inhabitants. During the last 50 years her population has been doubled once in 9½ years; during the last 40, once in 9; the last 30, once in 7; the last 20, once in $5\frac{1}{2}$ and the last ten, once in every 4 years. Such has been the almost unprecedented growth of St. Louis from natural causes. What, then, may not be expected as the result of the construction of her numerous railways now in progress or projected, in connexion with her natural advantages? The opening of these artificial routes will give her easy access to numerous deposites of lead, iron, coal, and copper ores, within a circuit of 90 miles, equal to the wants of the whole Mississippi valley for centuries, which have not, to this time, been brought to The lack of necessary means of transportation has heretofore precluded the successful working of these numerous mines, though they have been known to exist in richness rarely if ever excelled. completion of the "Pacific," the "Hannibal and St. Joseph," the "St. Louis and North Missouri," and other projected railways, which is now determined, will open easy communication with these mineral regions, besides developing the resources of large tracts of country. second to none other in agricultural richness. Owing to these promising natural features, the hidden wealth of which will be brought to light and rendered available through these stupendous lines of internal improvement, the people of St. Louis confidently anticipate a continuation of their present rate of increase during the next ten years, when her capacity will be equal to the support of nearly 500,000 inhabitants, when her mines may vie with those of Sweden and Great Britain, and her manufactures and agricultural productions, her railway and river tonnage, and her aggregate commerce, may not be exceeded by those of any other region of the world.

A more detailed account of the different lines of public improvement in progress will be found under the proper head, in another part of this report, and their situation may be ascertained by reference to the

accompanying railway map.

The following tables, compiled from annual statements, will exhibit something of the growth and character of the commerce of St. Louis during a term of years.

Comparative statement of some of the principal articles landed at St. Louis during six years—ending December 31, 1852.

	<u> </u>					
Articles.	1851.	1850.	1849.	1848.	1847.	1846.
Wheatbush	1,700,708	1,792,074	1,792,535	2,194,789	2, 432, 377	1,888,926
Flour bbls	793, 892	292,718	306, 412	387, 314	308,568	220, 457
Corn bush	1,840,909	968, 028	305, 383	699, 693	1,016,318	688, 649
Oatsdo	794, 421	697, 432	252, 291	243,700	202, 365	95,612
Barley, &cdo	101,674	69,488	46, 263	55,502	57 , 380	10, 150
Bork casks & tes.	15,298	2,969				*
Pork boxes & bbls.	103, 013	101,762	13,862	97,642	43,692	48,981
Pork, bulk pieces.	768, 819	449,556				
Pork, bulktons	147					
Saltsacks.	216, 933	261, 230	291,709	204,741	106, 302	177,724
Saltbbls	46, 250	19, 158	23, 553	38, 809	41,380	58,948
Hemp bales.	65, 366	60,862	46, 290	47,270	72, 222	33,853
Leadpigs	503, 571	573, 502	590, 293	705, 718	749, 128	730, 829
Tobaccohhds.	10,371	9,055	9,879	9,014	11,015	8,588
Beeftcs. & casks.	5,640	2,586	10, 867	9, 369	5,735	
Beef bbls	8,872	6,049	12, 336	7,806	4,720	1,716
Hides lbs	90,736	94, 228	68,902	62,097	71,877	63, 396
Whiskey bbls	47, 991	25, 959	29, 085	29,758	22, 239	29,882
Sugarhhds.	29, 276	25,796	26,501	26, 116	12,671	11,603
Sugar bbls	20,854	5,034	7 7 940	14 010	00 111	E 750
Sugar boxes.	15,833	11, 328	7,348	14, 812	20,111	5,752
Coffee sacks.	101,904	73,673	67, 353	78,842	77,767	65, 128
Molasses bbls	40, 231	29, 518	29, 214	21,943	21,554	14,996
Larddo	14, 465	61,535	58, 279	67, 339	32,021	26, 462
Lardtierces.	37,743	17,925	15,801	6,579	2, 150	
Lardkegs	14, 450	11,549	18,845	14, 180	8,595	14, 730
Bacon casks & tes.	16,701	30,035	16, 280	29, 423	14,425	11,803
Bacon boxes.	1,564	1,320	3, 245	6,622	1,289	1,648
Baconpieces.	6,629	49, 321				
Lumber M feet.	16, 280	14,676	24, 188	22, 137	16,017	
Shingles M	7,805	4, 316	7, 334	15,851	13,098	
LathM	1,265	283	1,290	2,598	2,817	

Over and above the articles here enumerated there are mentioned some fifty-one others, including nearly all articles of produce and merchandise prominent in the trade and productions of the West. The above, however, have been selected as showing the bulk of the commerce of the river at this point.

Below are presented tables exhibiting the number and tonnage of boats arriving at St. Louis in the prosecution of this trade during a

series of five years:

1851.	1850.	1849.	1848.	1847.
300	301	313	446	502
457	493	406	429	430
634	788	686	690	658
639	635	806	697	717.
301		355	327	314
119	75	122	194	146
175	215	217	396	204
2,625	2,907	2,905	3,179	2,969
	300 457 634 639 301 119 175	300 301 457 493 634 788 639 635 301 390 119 75 175 215	300 301 313 457 493 406 634 788 686 639 635 806 301 390 355 119 75 122 175 215 217	300 301 313 446 457 493 406 429 634 788 686 690 639 635 806 697 301 390 355 327 119 75 122 194 175 215 217 396

Tonnage of steamboats and barges was, in 1850 Dodododo1851 Wharfage collected in 1850 Dodo1851	. 683,140 . \$41,195
Showing, that while the number of arrivals has fallen off more than compensated by the enlarged capacity of the bilibited by the increase of tonnage.	the loss is pats, as ex-
The foreign commerce of St. Louis, consisting of importa	tions, is as
follows: "Sugar and molasses	\$289,753
Hardware, &c	133,401
Railroad iron	100,211
Earthenware	98,786
Tin plates, tin, copper, iron, &c	81,482
Dry goods and fancy goods	24,287
Brandy, wines, gin, &c	24,712
Burr-stones.	2,259
Drugs	2,618
Total	757,509
Amount of hospital money collected at the same port	\$2,941
Amount of duties collected.	239,318
Hospital money expended in relief to sick & disabled boatmen	3,441

No estimate of the total value of the commerce of St. Louis for 1851 has been made, nor, indeed, would it be an easy task to prepare such with any degree of accuracy. Enough, however, is here shown to exhibit the importance which it must soon attain, and the power and influence it will ultimately exert on the commerce of the Atlantic cities.

Note .- St. Louis and Cincinnati, as already noticed, are being connected by the Ohio and Mississippi railroad. This road is all under contract, and crosses the Wabash river at Vincennes. From this point a railroad is under contract to Evansville, and finished from Evansville to White river, about thirty-six miles; the whole will be completed the present year. Henderson, in Kentucky, is on the Ohio river, twelve miles below Evansville. From this point a railroad has been surveyed through the State of Kentucky, passing Madisonville, Hopkinsville, and Trenton, striking the Tennessee State line about twelve miles north of Clarksville, and the whole distance in Kentucky is about ninety miles; and sufficient funds have been subscribed to grade, culvert, and bridge it. Henderson is at a point about central to that portion of the great Illinois coal field lying south of the Ohio river. This road passes over these coal beds for about fifty miles. The best workable vein, near Madisonville, is 83 feet thick, good roofing and drainage; and the mines are so situated, that the coal cars, when laden, will descend with grades on lateral roads of about thirty feet per mile; and the coal can be carried on a good road for about one cent a ton per mile. The citizens of Nashville and the county of Davidson are now deeply interested in securing the stock to connect the residue of the distance in Tennessee, about fifty miles; and the Kentucky and Edgefield company have taken \$205,000 of the stock. This road will secure to Nashville her fuel at the cheapest rate, and open a direct communication between the southeast Atlantic sea-board from Florida to the Capes of Virginia; and as it starts at Henderson, opposite the centre of the great Wabash valley, from which the States of South Carolina, Georgia, East and West Florida, now get their supplies by way of New Orleans and the gulf, this communication will supply all the northern portions of those States with all their breadstuffs, stock, &c., at about as cheap a rate as it can be done when the articles arrive at Charleston or Savannah, so far as carrying is concerned; and the road must, necessarily, be one of the greatest thoroughfares in the United States, embracing, as it does, every variety of climate and agricultural production, and the shortest communication to the seacoast; and the attention of the public is now being anxiously turned to this great work. The country over which it passes is nearly "champagne" in Kentucky, and all highly agricultural.

STEAM MARINE OF THE INTERIOR.

As the rivers of the great valley west of the Alleghany ridge—the Mississippi and its tributaries—constitute the most important portion of our river navigation, a full report of the business transacted upon those waters is very desirable, especially in this connexion; as it would show not only the relative value of the commerce of the rivers, as compared with that of the lakes, but also the exchanges among the several different points upon the rivers. Regrets have before been expressed that returns have only been received from a few of the more important river cities in detail. It is thought best, however, to state the amount of tonnage employed in that trade, as the best means at hand of submitting proper approximate statements of the commerce of the great rivers, The character of the trade, and the principal articles of produce entering into it, will be sufficiently shown by the detailed statements of the commerce of the largest cities. This trade has long been considered of the highest importance by our most distinguished statesmen, who foresaw the necessity of making provisions for its prospective augmentation, as well as by the highest of commercial authorities who have ever advocated a liberal policy of internal improvements, and also by private individuals engaged in commercial affairs.

Mr. Calhoun, in his able report to the Memphis convention, convened for the purpose of considering the valuable interests involved, amounting to more than three hundred millions, and to concert measures for improving the navigation of the "western waters," says: "Looking beyond, to a not very distant future, when this immense valley,—containing within its limits one million two hundred thousand square miles, lying, in its whole extent, in the temperate zone, and occupying a position midway between the Atlantic and Pacific oceans, unequalled in fertility and the diversity of its productions, intersected by the mighty stream, including its tributaries, by which it is drained, and which supply a continuous navigation of upwards of ten thousand miles, with a coast, including both banks, of twice that length—shall be crowded with population, and its resources fully developed, imagination itself is taxed in the attempt to realize the magnitude of its

commerce."

The trade on the Mississippi and its tributaries is now a matter of great public concern. By its rapid advance and its great future it claims equal notice with the foreign trade and the trade of the lakes, and perhaps more than either as one of the main sources of the wealth

of the confederacy.

The following remarks from De Bow's Review show the interest that is felt in this matter: "The free and uninterrupted navigation of these great inland waters must, of course, be a matter of prime interest to the country. They are to the populous nations on their banks as the ocean itself, over which commerce, not kings, presides. No construction of State powers, as contradistinguished from Federal, can exclude these arteries of trade from the pale of government regard and protection. They are points of national concern. No State, nor alliance of States, can apply the remedies which their exigencies require. No narrow views of economy, no prospective expenditure, however vast,

could be allowed to deter the legislature of the Union from approaching the solemn act of duty which is involved here."

The following resolutions were, with others, adopted by the Mem-

phis convention:

"That safe communication between the Gulf of Mexico and the interior, afforded by the navigation of the Mississippi and Ohio rivers, and their principal tributaries, is indispensable to the defence of the

country in time of war, and essential also to its commerce.

"That the improvement and preservation of the navigation of those great rivers are objects as strictly national as any other preparation for the defence of the country; and that such improvements are deemed by this convention impracticable by the States or individual enterprises, and call for the appropriation of money for the same by the general government."

The following statements, compiled chiefly from a valuable and useful report, already referred to, on the steam marine of the inland waters, are presented here to exhibit the necessity for secure inland navigation, and as having a special bearing on the trade of the Missis-

sippi valley and the St. Lawrence basin:

"The order in which the several collection districts on the lakes and rivers of the interior are shown, commences on Lake Champlain, from which it extends up the St. Lawrence river and Lake Ontario to the Niagara river; thence up Lake Erie, the Detroit river, and Lake Huron, to Michilimackinac; thence up Lake Michigan to Chicago; thence across the Mississippi river, and down that stream to New Orleans; thus extending, on a natural line of interior navigation, which has but two slight interruptions, from the waters of the Gulf of St. Lawrence to those of the Gulf of Mexico, a distance of not less than 2,850 miles, upon which is employed, for purposes of trade and travel, a steam tonnage of 69,166 tons.* The Ohio basin forms of itself a cross-section some 1,100 miles in length, embracing simply the districts on that river and its tributaries.

"Immediately west of Lake Superior lies the Minnesota district, with a collector at Pembina, on the line between our own and the British possessions, and a deputy at St. Paul, on the Mississippi, within the Territory of Minnesota. This is a new district, and steamboats employed on its waters have hitherto been enrolled at St. Louis. During the years 1850 and 1851, three or four good steamers ran regularly between St. Louis and St. Paul, and Fort Snelling, two of which took several large pleasure parties almost two hundred miles up the Minnesota (St. Peter's) river. A small boat (the only one yet built in the Territory) has been running the past year above the falls of St. Anthony, 1,700 miles from the mouth of the Mississippi. Steamers run earlier and later on the waters of Minnesota than on those of the region

of the northern lakes, in the same latitude.

"Following the water-flow south from the Minnesota district, we reach

^{*}This distance is traced from Montreal to Lewiston on the regular line of steamboat navigation; thence by land (the first interruption) to Buffalo; thence on the regular line of steamboat navigation to Chicago; thence by the Illinois and Michigan canal, (the second interruption,) and the Illinois river, to the Mississippi; and by that river to the Gulf.

S. Doc. 112.

the Gulf of Mexico by the Mississippi river, along which another interior section may be constructed, to show separately the strength of that division of our steam-marine. This section presents the following results:

Steam-marine of the Mississippi Valley.

Districts.	No. of steamers.	Tonnage.	No. of officers, crews, &c.	Passenge.
Minnesota *		Tons & 95ths.		
Saint Louis		31,833 92	2,340	367,793
Memphis		450 00	15	34,000
Vicksburg		937 87	101	46,800
Natchez †				
New Orleans	113	34,736 00	3,958	434,000
Total	253	67,957 84	6,414	882,598

* New district.

† No enrolment.

Steam-marine of the Ohio basin.

Districts.	No. of steamers.	Tonnage.	No. of officers, crews, &c.	Passengers.
Pittsburg	112 46 111 61	Tons & 95ths. 16,942 68 7,190 67 24,709 07 15,180 66	2,588 651 2,789 1,913	466,661 243,170 2,460,796 270,000
Evansville* Nashville Total	18 348	3,578 13 67,601 31	397 8,338	$24,340 \\ \hline 3,464,967$

*New districts.

"By a summary of aggregates, it appears that the entire strength of the steam-marine of the lakes and rivers of the interior is comprised in 765 vessels, measuring $204,725\frac{12}{95}$ tons, and employing 17,607 persons as officers, crews, &c. Of this aggregate, 663 are ordinary steamers, measuring $184,262\frac{3}{9}\frac{2}{5}$ tons, and employing 16,576 persons; 52 are propellers, measuring $15,729\frac{12}{95}$ tons, and employing 817 persons; and 50 are ferry-boats, measuring $4,733\frac{6}{9}\frac{3}{5}$ tons, and employing 214 persons. Of the lake steamers, 56 of the ordinary, and all but two of the propellers, are moved by high-pressure engines, and 48 of the or-

dinary by low-pressure. All of the river steamers; and all of the ferry-boats, have high-pressure engines. Low-pressure engines have at several periods been partially tried on the western rivers, and abandoned. In the year 1818, three boats of this description were built on those waters; in 1819, seven boats; in 1820, two; in 1822, one; in 1823, one; in 1824, two; in 1825, six; in 1826, eight; in 1827, four; in 1828, two; in 1829, three; in 1830, two; in 1831, four; total, forty-seven; of which therty-three were built at Cincinnati, five at Louisville, three at New Orleans, and the remaining six at different points on the Ohio. On the lakes, except for propellers, high-pressure engines have now comparatively few advocates, and within the last four or five years very few of them have been built.

"The highest of the navigable waters of the United States is Lake Superior, which is embraced in the district of Michilimackinac, with the St. Mary's river, Green Bay, and the Straits of Mackinac. Following the water-flow from this district, we reach the Gulf of St. Lawrence through Lakes Huron, Erie, Ontario, and the St. Lawrence river; and the Atlantic coast by Lake Champlain and the New England improvements in one direction, and in another by the Erie canal and the Hudson river.

Tabular statement of steamers on the rivers.

Places.	No.	Tonnage.	No. officers, crew, &c.	Passengers carried.	Average distances.
St. Louis	131	81, 838	2, 340	367, 793	899
Memphis	3	450	15	34,000	
Vicksburg Natchez	6	937	101	46, 800	
New Orleans.	113	34,736	3,958	434,000	
Nashville Evansville	18	3,578	397	24, 340	750
New Albany					
Louisville.	61	15, 185	1,913	270,000	1,00
Cincinnati	111	24,709	2,789	2,400,796	
Wheeling	46	7, 190	651	243, 170	220
Pittsburg	112	16, 942	2, 588	466, 656	280
Total	601	235, 661	14,752	4, 287, 555	

In order to show correctly the currents of actual travel by the waters of these several lines of interior collection districts, with the local movement at the principal port of each, the following statement of the several lines is presented:

Lines of travel.	Number of passengers.
1. By the St. Lawrence and the lakes 2. By the Mississippi and Missouri rivers 3. By the Ohio and its tributaries Total.	1,514,290 882,593 3,464,967 5,861,850

Statement of the total number of persons who arrived at and departed from the principal port of each collection district of the interior, by steamers, railroad cars, stage-coaches, canal boats, and steam ferry-boats, during the year ending Jun 30, 1851.

LINE OF THE NORTHERN FRONTIED

	TO THE CE	LINE OF THE NORTHERN FRONTIER.	N FRONTIER.	, '		
Ports.	By steamboats.	By steamboats. By railroad cars.	By canals.	By stages.	By steam ferry- boats.	Total.
Rurlington	155,000 3,500 60,562 22,830 22,987 171,557 60,630 8,190 31,842 31,842 31,842 31,842 31,842 85,800		81,816 79,408 38,615 277,139 45,944 43,000 157,751 197,399 71,253 42,770	5, 952	104, 620 1, 240 2, 400 26, 280 352, 000	236,816 23,500 244,590 7,192 71,193 277,349 71,331 632,423 82,650 169,941 31,843 918,833
	1,027,730	1,325,911	86,000	27,872	486, 540	2, 953, 073

† No enrolments.

* New districts.

STATEMENT -- Continued.

LINE OF THE MISSISSIPPI.

		,				
Ports.	By steamboats	By railroad	By canals.	By stages.	By steam ferry- boats.	Total.
*St. Paul, Minnesota Saint Louis, Missouri. Memphilo,! Tennessee Vicksburg, Mississippi. † Narchez, Mississippi. New Orleans, Louisiana	318, 713 10,800 419,000		18, 582	18, 582	49, 080 34, 000 36, 000 15, 000	386,375 34,000 46,800 434,000
Total	748, 513			18,582	134, 080	901, 175
	LINE OF	LINE OF THE OHIO.				
Pitisburg, Pennsylvania. Wheeling, Virginia Gincinnati, Ohio. Gincinnati, Ohio. Gincinnati, Ohio. Gincinnati, Indiana. Tow Albany, Indiana. Evansville, Indiana. Total.	4.106	298, 745 39, 170 150, 196 150, 000 20, 000 24, 340 24, 340 265, 936		37, 998 104, 000 2, 190 000 150, 000 775 28, 773 2, 481, 911	37,911 114,000 2,190 000 150,000	466, 656 27, 620, 083 2, 620, 083 70, 149 306, 500 775 24, 340
				-		

STATEMENT—Continued.

RECAPITULATION.

Lines.	By steamboats. By railroad.	By railroad.	By canals.	By stages.	By steam ferry-boats.	Total.
Northern frontier	1,027,750	1, 325, 911	86,000	27, 872	486, 540	2, 953, 073
Mississippi valley	748, 513	•		18,582	134, 080	901, 175
Ohio basin	983, 051	265, 936		28, 773	2, 481, 916	3, 759, 676
Total	2,759,314	1, 591, 847	86,000	75,227	3,102,536	7,614,924

It is not surprising that a first attempt to collect and embody this information should have fallen short of complete success at all points. The wonder is, rather, that so many facts should have been obtained, of a reliable character, as are given in the preceding tables. The deficiencies are few in number; and had more time been devoted to the collection of this particular class of facts in the Cuyahoga, Miami, and Vicksburg districts, they would have been hardly worth mentioning.

There are several centres of interior commerce and navigation, at which it would seem of interest to know the radiation of trade and travel, as shown by natural and artificial channels of communication, and the boats and other descriptions of conveyance in or upon them. One of these centres is at the head of the Ohio river, another at the foot of Lake Erie, a third at the head of Lake Michigan, and a fourth on the Mississippi, below the outflow of the Illinois and the Missouri The heavy commerce that centres midway of the Ohio valley, though reaching up the Muskingum, the Wabash, the Cumberland, and the Mississippi, by natural streams, and back into Ohio and Indiana by artificial channels, is more direct in its main lines, which extend to Pittsburg in one direction, and to New Orleans in another. In the first and last of the four districts named, the number of boats and men, and the amount of tonnage, employed on each of the several streams to which the trade of those districts extends, as well as the travel upon each, are shown by the following subdivisions of the whole number of boats therein severally enrolled.

Subdivision of the St. Louis district.

Number of steamers from St. Louis.	In what trade.	Tonnage.	Number of officers, crews, &c.	Pres	Low,	Number of passen- gers.	Average distance carrried.	Longest trip.
26 27 28 42 3 5	To New Orleans To Illinois river To Missouri To Upper Mississippi . To Cairo Ferry-boats	Tons. 12, 575 4, 527 6, 148 7, 038 658 885	628 412 495 716 54 35	All	None.	64, 008 48, 799 57, 284 140, 822 7, 800 49, 080 367, 793		Miles 1, 195 320 1, 780 960 200 1

Subdivision of the Pittsburg district.

umber of steam- ers at Pittsburg.	In what trade.	£6.	Number of officers, crew, &c.	Pres	sure.	er of passen- gers.	ge distance sarried.	Longest trip.
Number ers at P		Tonnage.	Numb	High.	Low.	Number of gers	Average	Longe
		Tons.					Miles.	1
7	Cincinnati	2,451	470	All.	None.	89,828	479	
16	Monongahela river	1, 332	224	44	"	112, 142	561	
2	Youghiogeny river	294	29	66	66	9,862	33	
2	Beaver river	203	30	"	**	70,600	29	
2	Wheeling	371	34	66	"	19,600	93	
3	Alleghany river	334	42	46	46	7,000	56	
3	Zanesville	370	44	66	"	2,890	257	
42 13	St. Louis, Nashville, &c.	8,817	1,296	66			1,133	
11	Transient boats	1,500 674	292	66	"	6, 500	150	
11	Ferry steamers	594	84 44	"	"	37,911	494	
	Edity socutions		44		."	37,911	4	
112		16, 942	2,589			466, 656		

The main trade of each of the other four districts named is in a direct line from the second, nearly north and south, by Lake Michigan and the Illinois river, and the Illinois and Michigan canal; and from the third, in a direction indicated by the course of Lakes Erie and Huron and that of the Erie canal. The points embraced by the ramifications of travel, however, are more numerous; and hence the following subdivisions are intended only to include them, and show the total number of passengers who arrived at and departed from the principal port of each of these districts, by the several descriptions of conveyance mentioned, during the period included in all the preceding tables—the year ending 30th June, 1851.

Buffalo subdivision.

Conveyance.	No. of passengers arrived at and departed from Buffalo.
By ordinary steamers	157, 251 14, 300 26, 280
By the Buffalo and Rochester railroad By the Buffalo and Niagara Falls railroad By the Erie canal	262, 386 119, 200
Total	622, 423

S. Doc. 112.

Chicago subdivision.

Conveyance.	No. of passengers arrived at and departed from Chicago.
	91.000
By ordinary steamers	\$1,960 3,900
By the Galena and Chicaga Union railroad	71, 253
By the Illinois and Michigan canal	42,770
Total	199, 883

RECAPITULATION AS TO TRAVEL.

367, 795 466, 656 622, 423
199, 883
1, 656, 757

Showing a recorded movement at these four commercial centres of the interior, (of the Northwest, indeed,) of one million six hundred and fifty-six thousand seven hundred and fifty-seven persons in the course of a year, where the resident population is but 217,946. No fact can better illustrate the activity of our people.

By the national census for the year 1850, the population of each of the four cities at which this movement is shown, is stated as follows:

St. Louis. Pittsburg, 46,601; with Allegheny city. Buffalo Chicago	67,862 42,261
Total of the four commercial centres.	217,946

MARINE LOSSES AND INSURANCE.

Statement of the amount of marine risks taken, and of losses paid, on vessels and cargoes of the United States, in the several collection districts of the interior, for the year ending June 30, 1851.

Districts.		Amount insured.			Losses paid.		Value of prop-	
	On hulls.	On cargoes.	Total.	On hulls	On cargoes,	Total.	erty destroyed.	
Vermont	\$20,000 00	\$387,455 00	\$407,455 00		\$500 00	\$500 00	\$500 00	~ .
Jawegatchie	3,500	19,122 59	22,622 59					70
Cape Vincent Sackett's Harbor	4,662 00 85,306 00 673,350 00	1,802 00 173,698 00 1,693,216 00	6,464 00 259,004 00 2,366,566 00	\$12,008 00 36,066 77	11,000 00	23,008 00 51,034 20	26,300 00 70,830 41	~ I
Genesee Buffalo Creek	30,400 1,169,100	105,000 00 5,227,668 00	135,400 00 6,396,768 00	46,100 00	43,000 00	89,100 00	206,934 00	~
Fresque tsle Cuyahoga Sandusky	189,000 00	1,962,275 00	2,151.275 00	4,833 66 350 00	1,730 00	6,563 66 350 00	8,521 00 1,650 00	•
Milami Detroit Michilimackinac						12,900 00	63,400 00	
Milwaukie.				26,997 00	11,430 00	38,427 00	44,613 00	
Multinesota.						162,498 00	230,492 00	
Vicksburg								
Natchez							•	
Neshville Evansville						•		8 °±
								_

STATEMENT-Continued.

_				S. Do
	, ,	value or property destroyed?		8319,000 00 319,050 33 2,652 00 38,715 00 1,568,106 73
		Total.		\$134,300 00 \$57,428 48 1,989 03 30,434 98
	Losses paid.	On cargoes.		\$181,406 89 1,989 03 13,972 38
de la constanta de la constant		On hulls.		\$76,021 59 16,462 60 218,539 62
A STANDARD COMMENT OF THE PROPERTY OF		Total.	The second secon	\$16,082,088 33 \$17,038,439 82 683,934 00 4,822,379 33 3,008,966 00 4,822,379 33 99,345,318 92 34,371,141 07
A COLUMN TO A COLU	Amount insured.	On cargoes,	- Carlo Colored Colore	\$16,082,089 33 \$683,934 00 3,008,966 00 99,345,218 92
CONTRACTOR OF THE PARTY OF THE		On hullg.	And the particular street, and the street, and	\$956.957.49 \$0.633.83 1,813,413.33 5,025,922 15
	Districta.		ST. OT ST. ST. ST. ST. ST. ST. ST. ST. ST. ST	New Albany \$956.357 49 \$16,082,082 33 \$17,038,439 62 \$76,021 59 \$181,406 89 Cincinnati \$0,833 34 \$3,008,966 00 \$4,822,379 33 \$16,462 60 \$1,989 03 Pittsburg \$5,025,922 15 \$9,945,316 92 34,371,141 07 \$216,539 62 \$280,045 73

The total amount of property thus shown to have been destroyed on the lakes and rivers of the interior, in the course of the year which ended on the 30th day of June, 1851, is much below the common estimate. But it is here presented only as an approximation, to receive just so much respect as statements made up in the manner of this are generally entitled to. It is perhaps quite as likely to be near the truth, however, as the exaggerated estimates usually made in such cases by interested parties who have a particular purpose to subserve. And with reference to it, must be steadily borne in mind the fact, heretofore mentioned, that the year embraced was one of unusual exemption from serious disasters on the lakes and interior rivers of the United States.

A list, containing the names of 618 steamboats lost on the rivers of the Ohio basin and the Mississippi valley, from the period of the first introduction of steam navigation thereon to the close of the year 1848, has been prepared by Captain Davis Embree, one of the oldest steamboat

masters ever engaged upon the western waters.

This list shows the place where, and the time when, each of the boats so lost was built; the amount of its tonnage; the date of its loss; the length of time it had been running when lost; its original cost; the depreciation of its value by use; and the sum finally lost in its destruction. Of the 618 boats it embraces, 45 were lost by collisions, 104 by fires, and 469 by snags and other obstructions to navigation.

The following statement shows aggregate results:

Causes.	Number of boats.	Tonnage.	Original cost.	Depreciation of value.	Final loss.
Lost by collisions Lost by fires Lost by snags	45 104 469	7,769 22,058 79,261	\$730,286 2.064.512 7,104,950	\$346,762 1,096,143 3,733,852	\$383,524 968,369 3,368,098
Total	618	109,088	9,899,748	5,176,757	4,719,991

The losses sustained through explosions, collapsing of flues, and bursting of steam-pipes, are not included in this statement. With reference to losses of those descriptions, some interesting information is given at the close of Captain Embree's list, as also concerning the average life of steamboats on the western waters, the subjects of marine insurance thereon, the monthly and yearly cost of running boats, &c.

The history of the rise and progress of the steam-marine of the United States is one of the most interesting and wonderful things in our national advancement. Although one steamboat was built at Pittsburg as early as the year 1811, and although eleven other boats were built on the Ohio river and its headwaters within the next five years, it was not until the year 1817 that steam navigation could be said to have been fairly introduced upon the Mississippi and its tributaries. Previous to this year, there were twelve steamboats upon these waters, having an aggregate carrying capacity of 2,235 tons. From 1817 to 1834, the number of boats increased to 230, and the aggregate of tonnage to 39,000 tons. In 1842 there were 475 boats on the same waters: in 1851 this number had been increased to 601.

Official reports made to the Treasury Department in 1842, stated in detail the steamboat tonnage on the Mississippi and its tributaries in that year. The following table shows the increase from 1842 to 1851.

Comparative Statement.

Districts.	. Tonnage.					
	1842.	1851.	1ncrease.	Decrease,		
New Orleans	28,153	34,736	6,583			
Saint Louis	14,725	31,834	17,109			
Cincinnati	12,025	24,709	12,684			
Pittsburg	10,107	16,943	6,836			
Louisville	4,618	15,181	10,563			
Nashville	3,810	3,578		232		
Wheeling	2,595	7,191	4,596			
Vicksburg		938	938			
Memphis		450	450			
Total	76,033	135,560	59,759	232		

The year following the real commencement of regular steamboat navigation on the waters of the Mississippi and its tributaries, (1817,) the first steamer employed on the upper lakes was built and launched on Lake Erie. In 1819 the waters of Lake Huron were first ploughed by the keel of a steamer, and in 1826 those of Lake Michigan. In 1832 a steamboat first appeared at Chicago, and in 1833 there were but eleven small steamers on the three lakes named. This date may therefore be fairly taken as that of the real commencement of steamboat navigation on the upper lakes.

Ten years later (February, 1843) a report was made to Congress of the number and tonnage of steamboats employed on those waters, "from January 1, 1841, to January 1, 1843." Though this is a very loose way of stating a matter of this kind, and does not give the true amount of the steam tonnage enrolled and employed in either one of the two years included—necessarily overstating it—yet the facts thus presented are used for the purpose of comparing them with those now ascertained, as showing correctly the steam tonnage of the year which

ended on the 30th June, 1851.

Comparative Statement.

71.11	Tonnage.				
Districts.	1841–'43.	1851.	Increase.		
Buffalo creek	6,773	25,990	19,217		
Presque 1sle	2,813	5,691	2,878		
Cuyahoga	1,855	6,418	4,563		
Miami	887	1,745	858		
Detroit	2,053	16,469	14,416		
Mackinaw		1,746	1,746		
Chicago		652	652		
Total	14,381	58,711	44,330		

These comparative statements show that in a period of nine years the steamboat tonnage of the Mississippi valley has nearly doubled itself, and that in a period of eight years that of the upper lakes has more than quadrupled itself: very significant facts touching increase of population, production, and trade.

The average size of steamboats now running on the lakes is found to be 437 tons; that of the steamboats of the Ohio basin $206\frac{33}{95}$ tons; and that of those of the lower and upper Mississippi, the Arkansas, the Missouri, and the Illinois rivers, $273\frac{74}{95}$. On the Mississippi and Ohio rivers there are many steamers of from 300 to 500 tons each, and a number from 600 to 800 each; but the large number of light-draught boats, built to run in periods of low water on those rivers, and in all seasons on the smaller streams emptying into them, carry the general averages down to the figures given above. Several of the passenger steamers of the lakes are of eleven hundred tons and upwards each.

Comparative Statement.

	Number.	Tonnage.
Northern lakes of the United States Mississippi valleydo Ohio basindo	164 253 348	Tons and 95ths. 69,165 87 67,957 84 67,601 31
Total for interior of the United States.	765	204,725 12

The cost of steamboats on the lakes and rivers of the interior, varies from eighty to ninety and from ninety to one hundred dollars per ton. Taking the lowest price, which is that attainable in the Ohio basin, as the standard, we have as the original value of the 204,725\frac{12}{9.5} tons of steam tonnage engaged in the transportation of passengers and the carrying trade on the lakes and rivers of the United States, for the year ending June 30, 1851, an aggregate of sixteen million three hundred and seventy-eight thousand dollars; an amount of capital that goes entirely out of existence, and has to be re-invested every three and a half to four years—the period of the "natural life" of a steamboat on the waters of the interior.

This fact indicates very clearly the immense extent of the employment provided and of the material consumed, in keeping up the steam tonnage of the United States to the standard required by the travel and trade of the country.

Statement of the number of steam and sail vessels enrolled, registered, or licensed, in the several collection districts of the United States, that were lost on the lakes and rivers of the interior in the year ending June 30, 1851, with the cause and manner of loss, and the number of persons who perished thereby.

			200. 212.	, ,
is lost.	Total.		8 11 8 8 8 1 1 8 8 9 9 9 9 9 9 9 9 9 9 9	19
Number of persons lost.	On the	rivers.	23 11 14 8 11 10 10 10 10 10 10 10 10 10 10 10 10	51 51
Number	On the	lakes.	2 11 23 1 1 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Total.	Rivers.	24 82 82 11	11
	To	Lakes.	α π 4,85 ∞ α α α α α α	
	By snags.	Rivers.	es 70	1
Number of vessels lost. By tempest. By fire. By collision. By si	By 6	Lakes.	4	
	llision.	Rivers.	25 — — — — — — — — — — — — — — — — — — —	
	Ву со	Lakes.	4	
	fire.	Rivers.	24	=
	By	Lakes.	α-I	
	mpest.	Rivers.	ω ω ω ω ω ω ω ω ω ω ω ω ω ω ω ω ω ω ω	
	By te	Lakes.		
	Districts.		Vermont, Vt. Champlain, New York Oswegalchie, New York Cspe Vincent, New York Cspe Vincent, New York Oswego, New York Oswego, New York Riagara, New York Niagara, New York Refiglio Creek, New York Presque Isle, Pennsylvania Cuyahoga, Ohio Sandusky, Ohio Manni, Ohio Detroit, Michigan Michilimackinae, Michigan Michilimackinae, Michigan Michilimackinae, Min. St. Louis, Missouri. Memphis, Tennessee. Vicksburg, Mississisppi. Natchez, Mississisppi.	New Orleans, Louisiana

TATEMENT—Continued.

Number of persons lost.	On the Total.		7 4 4 29 29 29 29 29 29 29 29 29 29 451 452 45	
umber of	Number of persons On the lakes, rivers.		19	
Z		Rivers.	1-4 0 E	
	Total.	Tota	Lakes.	45
	By snags.	Rivers. Lakes. Rivers. Lakes. Rivers. Lakes. Rivers. Lakes.	33	
at.	Вуя	Lakes.		
Number of vessels lost.	By tempest, By fire. By collision.	Rivers.	1 13	
		umber of By col	Lakes.	9
Ź		Rivers.	3 11 28	
		Lakes.	25	
		Rivers.	20	
	By ter	Lakes.	933	
	Districts.		New Albany, Indiana Chemicky 1	

In this table we find, at three periods, the following number of boats, with their tonnage, which have been built, worn out, and lost by disasters, in the west, prior to the year 1849:

Boats.	Tonnage.	Average tonnage.	Average number of years they lasted.
			•
684	106,135	155	41/2
552	90,791	164	$3\frac{1}{2}$
420	80,220	191	4½ 3½ 3½ 3½
1,656	277,146	167	33

RECAPITULATION.

Boats built prior to 1849	1,656 736
Losses on boats, as per tables	43,791 98,529
Total loss	42,320

GENERAL AVERAGES.

Of the 765 steam-vessels on the waters of the interior, 164 run on the lakes, and 601 on the rivers.

Of the aggregate tonnage of these 765 steam-vessels of the interior, (viz: 204,725 tons,) $69,165\frac{87}{95}$ tons is upon the lakes, and $135,559\frac{15}{95}$ upon the rivers.

Of the 164 steam-vessels on the lakes, 105 are ordinary steamers, 52

are propellers, and 7 are ferry-boats.

Of the 601 steam-vessels on the rivers, 558 are ordinary steamers, and 43 are ferry-boats.

The average tonnage of all the steam-vessels on the lakes (ferry-

boats excepted) is 437 tons.

The average tonnage of all the steam-vessels on the rivers (ferry-boats, excepted) is $235\frac{45}{95}$ tons.

The average tonnage of the ordinary steamers on the lakes is $503\frac{65}{95}$

tons, and that of the propellers $302\frac{48}{95}$ tons.

The average number of persons employed on the ordinary steamers of the lakes is $19\frac{1}{2}$ to each; and the number employed on the propellers is $15\frac{1}{2}$ to each.

The average number of persons employed on the ordinary steamers of the rivers is 26 to each; the boats of the Ohio basin averaging a

fraction under 26, and those of the Mississippi valley averaging a fraction over 26.

The 7 steam ferry-boats enrolled on the lakes measure $555\frac{94}{95}$ tons; the 43 steam ferry-boats enrolled on the rivers measure $4,177\frac{94}{95}$ tons.

Of the 558 ordinary steamers on the rivers, 317 are enrolled in the districts of the Ohio basin, and 241 in those of the Mississippi valley.

Of the 157 ordinary steamers and propellers on the lakes, 31 are enrolled on Lake Champlain, the St. Lawrence, and Lake Ontario; 66 are enrolled on Lake Erie; and 60 at Detroit and on the lakes above.

Of the 43 steam ferry-boats on the western rivers, 31 are in the Ohio

basin, and 12 in the Mississippi valley.

A remarkable equality is found to exist, at the present time, in the distribution of the steam tonnage of the interior among the several lines of navigation heretofore specified:

The line of the St. Lawrence and the lakes has $69,165\frac{8}{9}\frac{7}{9}$ tons of it;

The line of the Mississippi valley has 67,957 84 tons of it; and

The line of the Ohio basin has $67,601\frac{31}{95}$ tons of it.

The 17,607 persons employed on the steam-vessels of the interior, as officers, crews, &c., are distributed as follows:

On the lakes and the St. Lawrence	2,855
On the Mississippi river and its tributaries	
On the Ohio river and its tributaries.	. 8,338

The tabular views of vessels lost on the waters of the interior, shows a total loss of 118—76 on the rivers, and 42 on the lakes.

Of this whole number, 35 were lost by tempest, 31 by fire, 19 by collision, and 33 by snags. All the losses on the rivers were of the class of boats denominated "ordinary steamers" in this report. Nearly all the losses on the lakes were of sail-vessels, schooners and brigs.

The loss of lives, as shown by same tabular view, amounted to a total of 695 for the year—628 on the rivers, and 67 on the lakes. This statement is probably under the truth, except as to the Cincinnati district, which is thought to have more assigned to it in the table than its real proportion of the fatal calamities of the year. But this information is always difficult to obtain, and can hardly be had in an entirely reliable form without a more determined and longer-continued effort than was possible in the present instance.

GRAND RESULT.

The entire steam-marine of the United States, employed on the coast and in the interior, separate and combined, is shown in the following tabular view, with the aggregate tonnage thereof, the total number of persons engaged upon the same as officers, crew, &c., and the entire number of passengers, distinguishing between those conveyed upon ferry-boats and those conveyed upon steam-vessels of all other descriptions.

United States steam-marine.

Description of vessels.	No.	Tonnage.	No. of officers,	Pres	sure.	Passengers carried annu-
			crew,	High	Low.	ally.
Coast.						
		Tons. 95ths.				
Ocean steamers	96	91,475 60	4,548	3	93	190,993
Ordinary steamers	382	90,738 40	6, 311	152	230	3, 782, 572
Prope lers.	67	12, 245 73	542	50	17	53, 705
Steam ferry-boats	80	18,041 13	369	10	70	29, 315, 576
Total coast	625	212,500 91	11,770	215	410	33,342,846
Interior.						
Ordinary steamers	663	184, 262 32	16, 576	615	48	-2,714,874
Propellers	52	15, 729 12	817	50	2	44,440
Steam ferry-boats	50	4,733 63	214	50		3, 102, 531
Total interior	765	204, 725 12	17, 607	715	50	5,861,845

RECAPITULATION.

	No. of vessels.	Tonnage.
Steam-marine of the United States—Coast	625	Tons and 95ths. 212,500 91
bleam-marine of the Office States—Coast,,	020	212,000 51
Steam-marine of the United States-Interior	765	204,725 12
Total	1,390	417, 226 08
	By ferry-boats.	By all other steam-vessels.
Passengers of the coast division		steam-vessels.
Passengers of the coast division		By all other steam-vessels. 4,027,270 2,759,314

The strength of the steam-marine of the United States is thus shown to be comprised in thirteen hundred and ninety vessels, measuring four hundred and seventeen thousand two hundred and twenty-six and $\frac{98}{95}$ tons, and manned by twenty-nine thousand three hundred and seventy-seven men.

MARINE DISASTERS ON THE WESTERN WATERS IN 1852.

The annual statements of marine disasters on the western rivers and lakes, during the year ending December 31, 1852, exhibit serious results. On the rivers, 78 steamers have been lost: 48 of which were snagged, 16 destroyed by explosions, 4 by fire, and the remaining 10 by various other mishaps, such as collisions, wrecks, &c.

By these disasters 454 lives were lost.

In addition to the above losses to the steam-marine on the rivers, there were lost 4 barges, 73 coal boats, 32 salt boats, and 4 flat-boats. The aggregate loss of property attending these casualties is not ascertained.

On the lake or northern frontier, the annual statement of Captain G. W. Rounds exhibits the loss of life for 1852 at 296, and of property at \$992,659. He recapitulates the losses as follows:

Amount of loss		\$261,950
Do.	by other casualties	730,709
Amount of loss	by steam vessels has been	638,620
Do.	by saildodo	359,039
$\mathrm{Do.}$	by Amer'n dodo	907,487
Do.	by British dodo	65,172
Amount of loss	on Lake Ontario by steam \$49,350	
Do.	ondoby sail 29,589	
		78,939
Do.	on Lake Erie, by steam 543,470	•
Do.	doby sail 197,830	
		741,300
Do.	on Lake Huron, by steam 16,000	
Do.	doby sail	
	<u> </u>	69,600
Do.	on Lake Michigan, by steam 800	
Do.	doby sail 78,020	
		78,820
Do.	on Lake Superior, by steam	24,000

Of the 229 disasters here detailed, 7 occurred in the month of April, 19 in May, 24 in June, 15 in July, 16 in August, 21 in September, 27 in October, 85 in November, (55 in one gale of the 11th and 12th,) and 15 in December. Six steamers, 7 propellers, and 35 sail vessels have gone out of existence entirely. In many instances the amount of losses, as above stated, have been matters of estimate, as many must necessarily be; but much pains and care have been taken to procure, in each case, the opinion of competent men who were most familiar with the circumstances.

These statements show the whole number of lives lost on the western waters in 1852 to have been:

On the rivers45	4
On the lakes	16

Total......750

NEW ORLEANS, LOUISIANA.

The city of New Orleans is situated on the left bank of the Mississippi river, about 100 miles from its mouth, in latitude 29° 57′ 30″ north, and longitude 90° 8′ west. It is 953 miles below the mouth of the Ohio; 1,149 below the mouth of the Missouri, by the course of the river; 1,397 miles, in a direct line, southwest from New York; 1,612 from Boston; and 1,172 from Washington, by post-route. The population of the city, in 1800, was about 8,000; in 1810, 17,242; in 1820, 27,176; in 1830, 46,310; in 1840, 102,193; and in 1850, with its suburbs, 125,000; showing a duplication of inhabitants during the last half century, on the average, once in twelve years. This, considering the character of the climate, and the fact that only about six months of each year are devoted to active business, is very extraordinary. The business population has always been somewhat migratory; many persons going there for the transaction of business during the winter season, and returning north to spend the summer months.

For commercial purposes, New Orleans occupies a very superior and commanding situation. It is the natural entrepot for supplies destined to all parts of the Mississippi valley, as well as the depot for those products of that salubrious region which seek a market seaward. means of the Mississippi river and its tributaries, an inland trade is opened to her grasp, the magnitude of which has never been equalled. Steamers may leave her wharves and proceed on voyages of several thousand miles without breaking bulk. The Mississippi and its affluents are flanked on either side by extensive territories, unsurpassed in richness of soil, which readily yield a harvest to the labors of the agriculturist, whether it be of cane, corn, or cotton. These are the principal staples of the valley, and the receipts of each or their products at-New Orleans are rapidly increasing. Heretofore, the river has been the only channel depended upon for their transportation. Several lines of railway are in process of construction now, however, to facilitate the transportation of cotton and sugar, produced at a distance from the: river, to market, and thus enlarge the area of production. These bulky products will not bear an extensive land carriage by the old mode, and result in wealth to the producer; but the construction of railways for their cheap transit to the river, even, will not only change the prospects of the interior planters for the better, but will add greatly to the wealth and commerce of New Orleans, which is eminently a place of exchange and distribution. It is the great depot of the southwestern plantations, where cotton and sugar crops are bought and sold while still in the field, or "advanced" upon prospectively if necessary. It has also an extensive trade with Texas, Mexico, and the Gulf ports, as well as a very heavy foreign export trade. These facts will be fully illustrated by the accompanying tables. She has, besides, a large coasting trade with Atlantic ports, the value of which can only be known generally by its results.

Since the acquisition of California by the United States, and the discovery of its mineral wealth, and the consequent opening of important trade to the Pacific, the relative importance of New Orleans to New York and other Atlantic cities has not been as well maintained as it was

before. The Atlantic cities, but particularly New York, have received most of the California trade and commerce, owing to the establishment of lines of extensive ocean-steamers via Panama and Nicaragua, and the many steamers, and clipper and other ships, engaged in such trade from those ports, sent around Cape Horn. Sanguine expectations are entertained in New Orleans of the favorable results to that city, in respect to the Pacific trade, when the Gulf or Tehuantepec route is opened, either as a route of passage for ships by canal or a route of transit by railway. Doubtless, these anticipations would be realized; but, at the same time, the advantages of such route, it is believed, would accrue in an equally favorable degree to the Atlantic ports. The capital, shipping, and seamen, supplied by those cities to the whaling, Pacific, China, and East India trade, could not readily be transferred to New Orleans, even with the great advantages such route would afford that city. As the recipient, however, of the vast and inestimable resources of the Mississippi valley—which natural advantage can never be destroyed by artificial communications from that valley to the Atlantic-New Orleans will maintain its rank as one of the largest commercial cities of the

To present some of the advantages enjoyed by New Orleans as a commercial city, the following extracts are made from an article published in *De Bow's Review* in 1846, prepared by the present Assistant Secretary of the Treasury, William L. Hodge, esq. Mr. Hodge having been for many years a resident of New Orleans, intimately and personally connected with the business interests of the city, was fully competent to do justice to the subject which he has discussed.

Mr. Hodge says:

"No city of the world has ever advanced as a mart of commerce

with such gigantic and rapid strides as New Orleans.

"Her commercial life may be said to date after the cession of Louisiana to the United States, in 1803, as, previous to that her commerce was insignificant; and yet, in this short period of about forty years, she already ranks as the fourth city of the world for the magnitude and value of her commerce, being exceeded only by London, Liverpool, and New York. The foreign importations of New York greatly exceed those of New Orleans; but if the whole of the foreign and coasting trade of both ports are taken into view, it might be a matter of doubt whether the bulk, and possibly the value of merchandise that enters and leaves the mouth of the Mississippi, is not fully equal to that which enters and leaves Sandy Hook. At any rate, if it is not now, it will in a very few years not only equal but exceed it, and place New Orleans the third in rank of the commercial cities of the world. *

"The facilities and convenience of transacting business at New Orleans are fully equal to, and in many respects superior to those of any other place. It is the centre of immense exchange operations, and any amount of funds can at all times be obtained at the shortest notice under good letters of credit, and bills negotiated with great readiness and facility on any prominent point in the United States, or any of the commercial cities of western Europe; and the banking institutions afford all reasonable accommodations to the local wants and trade of

the city.

"Some European cities can show more splendid quays or magnificent docks for the accommodation of shipping, and the landing and loading of cargoes, tar exceeding in appearance and durability anything of the kind in New Orleans, but in no way superior in point of actual

convenience to the unpretending wharves of the city.

"As is generally known, the surface of the alluvial soil of Louisiana, including, of course, the site of the city, is considerably below the river in ordinary stages of high-water, and the country is protected from inundation by a raised and solid embankment called the 'Levee,' extending on both sides of the river below, and a great distance above the city. Outside of the levee the bank of the river is called the 'Batture,' which in many places is increasing from the continual alluvial deposites, while in other places the river has what is called 'a falling bank,' and the water gradually encroaches on the land. In the former case the levee is advanced as the batture increases, and this has been the case in a large portion of the front of New Orleans, where in some parts the levee has, in the last 25 years, advanced full 1,000 feet; and the front warehouses now stand for a long extent that distance from the water, affording a splendid space for the vast bulk of produce that is annually landed and shipped. The wharves are constructed outside the levee on massive piles, driven with a heavy iron ram into the mud, and extending over the river into the water sufficiently deep to admit the heaviest steamboats and ships to lie up against them; heavy sleepers connect the piles at their tops, and on these piles the platform is laid, of thick planking, the edges of which are separated about one inch, to prevent the accumulation of dirt which falls through these interstices into the river flowing below, and in five minutes after the heaviest storm the whole surface is in perfect condition to receive any description These wharves are thus planked back until they join of merchandise. the crown of the levee, in some places 150 to 200 feet, which is made firm and solid by a constant coating of shells, and always kept in good One of these wharves presents an unbroken front on the river of 1,500 feet, and others 600 to 800 feet, and in the business season it is usual to see these fronts entirely occupied with steamboats lying bow on, and each with her stage rigged out to the wharf, actively engaged in loading or unloading. The wharves intended for sea-going vessels are detached from each other with an intervening dock, and each wharf accommodates a tier of vessels, which, unlike the steamboats, are moored up and down the river, one outside the other, three, four, and five tiers deep, with a broad common stage communicating with the levee, and extending on the bulwarks of the vessels to the outside one; the timber, plank, and all the conveniences for this staging, being furnished by the city, who even also supply tarpaulins to protect the goods in case of rain.

"These details are given to show to those who are familiar to shipping, the very great facilities and convenience that are afforded here, and without which it would be impracticable to get through the vast amount of business that is transacted in the city, except with great in-

convenience and enormous expense."

Having thus sketched the commercial position of the city, as it then was, and the advantages and facilities which it possessed for a rapid

continued advancement, Mr. Hodge proceeds to predict the future greatness of this depot of the commerce of the Mississippi valley and the Gulf of Mexico. He alludes to the despatch given to the discharge of steamers and other vessels, and then passes to the question whether New Orleans will probably retain her immense trade, and how she will be affected by the constant augmentation of population, and the inevitable development of the resources of the mighty West. But as these speculations with respect to the future of New Orleans have been for some time past in a rapid course of realization, it is considered unnecessary to reproduce them here.

The tables herewith exhibited, presenting, somewhat in detail, the commerce of New Orleans at different periods, will show that Mr. Hodge, in his most sanguine predictions, did not over-estimate the effect which time would produce, through the facilities he then enumerated.

The following table will show the value of some of the principal articles imported into New Orleans from the interior, at several periods,

during the last ten years:

Articles.	1851-'52.	1845-'46.	1841-'42.
Apples	\$61,068	\$53,550	\$46,274
Bacon	6,348,622	1,671,855	521,912
Bagging	780,572	917,710	783,991
Bale rope	677,040	255,051	443,149
Beans	65,980	66,340	21,986
Butter	411,628	203,580	50,572
Beeswax	7,695	54,000	10,981
Beef	669,657	580,784	86,511
Buffalo robes	95,500	56,705	156,100
Cotton	48,592,222	33,716,256	24,425,115
Corn-meal	7,452	9,762	7,528
Corn	1,790,663	1,556,181	357,434
Cheese	253,543	114,784	37,940
Candles	323,616	31,383	14,372
Cider	900	405	3,390
Coal, western	425,000	131,400	55,292
Dried apples and peaches.	4,020	2,134	3,956
Feathers	72,275	115,175	10,422
Flaxseed	5,190	6,584	9,588
Flour	3,708,848	3,770,932	2,198,440
Furs	1,000,000	900,000	250,000
Hemp	257,235	309,800	18,165
Hides	247,374	135,495	32,461
Hay	160,302	213,810	65,540
Pig iron	1,860	37,905	7,084
Lard	3,925,845	2,729,381	1,138,919
Leather	189,300	51,750	16,920
Lime	52,881	8,387	415
Lead	880,332	1,982,087	1,053,815

S. Doc. 112.

STATEMENT—Continued!

Articles.	1851-'52.	1845–'46.	1841-'42.
Molasses	\$4,026,000	\$1,710,000	\$450,000
Oats	347,454	202,039	337,969
Onions	34,368	13,958	66,676
Oil, linseed	19,708	31,780	10,675
Oil, castor	120,148	45,201	183,300
Oil, lard	395,192	49,514	
Potatoes	456,190	160,587	39,302
Pork.	5,250,541	3,666,054	1,542,467
Porter and ale	4,060	1,270	4,112
Packing yarn	14,651	5,900	4,552
Skins, deer	24,950	87,280	32,194
Skins, bear	240	960	2,500
Shot	67,600	49,648	51,240
Soap	15,924	9,082	5,796
Staves	278,122	147,654	35,000
Sugar	11,827,350	10,265,750	3,600,000
Spanish moss	34,976	8,832	12,192
Tallow	26,140	148,590	76,065
Tobacco	7,196,185	4,144,562	3,699,160
Twine	18,728	4,404	10,790
Vinegar	552	675	1,563
Whiskey	1,097,640	936,832	360,070
Window-glass	48,127	11,324	11,044
Wheat	129,836	807,572	337,215
Other various articles, es-			
timated	5,500,000	5,000,000	3,000,000
Total	108,051,708	77,193,464	45,716,045

The annexed table exhibits the total valuation of property from the interior during the last eleven years.

\$108,051,708 \$850-'51 \$106,924,083 \$849-'50 96,897,873 \$848-'49 81,989,692 \$847-'48 79,779,151 \$90,033,256	1845-'46 1844-'45 1843-'44 1842-'43 1841-'42	\$77,193,464 57,199,122 60,094,716 53,728,054 45,716,045
--	--	--

Statement showing the value of exports and imports at New Orleans, annually, from 1834 to 1851 inclusive.

		Value of exports.		
Year.	Domestic produce,	Foreign mer- chandise.	Total.	Value of imports
1834	\$22,848,995	\$2,797,917	\$25,646,912	\$13,781,809
1835	31,265,015	5,005,808	36,270,823	17,519,814
1836	32,226,565	4,953,263	37,179,828	15,113,265
1837	31,546,275	3,792,422	35,338,697	14,020,012
1838	30,077,534	1,424,714	31,502,248	9,496,808
1 839	30,995,936	2.185,231	33,181,167	12,064,942
1840	32,998,059	1,238,877	34,236,936	10,673,190
1841	32,865,618	1,521,865	34,387,483	10,256,322
1 842	27,427,422	958,753	28,386,175	8,031,190
1843	26,653,924	736,500	27,390,424	8,170,018
1844	29,442,734	1,055,573	30,498,307	7,826,759
1845	25,841,311	1,316,154	27,157,465	7,345,010
1846	30,747,533	528,171	31,275,704	7,222,941
1847	41,788,303	233,660	42,021,963	9,222,504
1848	39,350,148	1,617,229	40,967,377	9,380,439
1849	36,957,118	654,549	37,611,667	10,050,697
1850	37,698,277	407,073	38,105,350	10,885,775
1851	53,968,013	445,950	54,413,963	12,958,294

Statement of the receipts on account of duties collected at New Orleans from 1835 to the 30th of June, 1852, inclusive.

1835	. \$961,365 8	86 1844	# /
1836	. 1,422,341	03 1845	
1837	594,132	70 1846	988,973 48
1838	. 725,447	75 1847	734,578 8
1839	. 1,227,131	19 1848	2,115,219 6
1840	. 1,143,322 3	81 1849	1,565,845 3
1 841	852,258	90 1850	1,961,859 7
1842	. 883,234 8	85 1851	2,319,370 2
1843	385,596	29 1852	2,282,082 2

No. 10.—Statement exhibiting the number of American and foreign vessels, and also their tounage, employed in foreign trade in the district of New Orleans, which entered and cleared annually from 1826 to 1851, inclusive.

		AMERICAN	AMERICAN VESSELS.		,	FOREIGN	FOREIGN VESSELS.			TOTAL	AL.	
Years.	园	ıtered.	ਹ	Cleared.	ធ្មី	Entered.	ַ ס	Cleared.	栖	Entered.	Cle	Cleared.
	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.
826.		48.691		68.144		93, 622		22.943		72.313		a) io
827		66,657		89, 793		30, 937		30,240		97,594		120,033
828		76,821	:	85,341		39,791	:	38, 731		116,612		124, 07
829	:	67,6~0	:	87,657	:	32,535	:	33,172	:	100,215	:	120, 829
830	:::::	83,243	:	106,917	:	35, 393	:	36,317	:	118,636		142, 334
831	:	76, 231	::::	96, 753		55, 541	:	53,558	:	131, 772	:	150,311
632	:	68, 637	•	58, 236		56,942	:	59,650		125,579		147,856
		71,476		86,021		62,346		60, 580		133, 822		146, 601
034	201	69, 131	456	112, 230	320	64, 199	337	71,599	709	136, 330	793	183, 829
836	503	94,000	100	131,391	910	50, 590	100	20,170	7.5	156, 370	804	196, 169
237	460	91, 790	299	175,563	174	44 615	3 %	45, 593	634	126, 121	0 00	950, 656
838.	613	139, 722	764	217, 126	169	43, 184	168	42, 142	785	182,906	935	259, 973
1839	603	126, 547	684	177,257	2.9	56,618	208	54,772	855	183, 165	805	232, 029
1840	672	182,292	820	277, 021	252	73, 185	265	73, 350	924	255, 477	1,115	350,371
1841	683	193, 003	741	244,988	259	71,634	259	72,577	94%	264, 637	1,000	317,565
1843	564	179, 777	644	244; 110	222	75,698	818	73, 668	9 2	255,475	862	317,778
1843	60 60 00	261,053	808	292,473	233	90, 450	550	80, 697	1,066	351, 503	1,028	373,170
844	727	211, 282	711	237,050	281	98, 705	68	101,056	1,008	310,987	1,000	338, 106
1040	7.52	237,268	633	243, 543	350	126,719	331	129, 261	1,072	363,987	970	373, 104
1846.	655	203,898	633	238, 448	506	111, 574	274	110,023	951	315,772	913	342,471
[847.	695	232,477	741	274, 112	393	170,059	397	166, 766	1,075	402, 536	1,138	440,878
1848	009	200, 428	299	287, 857	370	165, 678	362	148,612	970	366, 106	1,029	436, 499
1849	929	229,245	714	293, 456	412	196,204	417	194, 234	1.098	425,449	1, 131	487, 690
1850	555	175,065	4:13	211,800	374	174,884	320	158, 137	968	349, 949	843	369, 937
1851	543	194,776	645	292, 954	328	134,156	355	128,612	870	328, 933	796	421,566

MOBILE, ALABAMA.

Mobile is situated on a bay and river, bearing the same name, just at the point where the latter enters the former, and about thirty miles from the entrance of the bay into the Gulf of Mexico. It is in latitude 30° 40' north, and longitude 88° 21' west. The city is on the west side of the river, distant from Pensacola, Florida, 55 miles; from New Orleans 160 miles, from Tuscaloosa 217 miles, and from Washington 1,013 miles. It had a population in 1830 of 3,194 persons; in 1840, of 12,672; and in 1850, of 20,513: showing, from 1830 to 1840, a duplication about once in five years, and from 1840 to 1850, a rate of duplication once in about sixteen years. About forty miles above the city, Mobile river is formed by the junction of the waters of the Tombigbee and Alabama rivers. These latter are both navigable for steamers, and a portion of the distance for vessels. Steam navigation on the Tombigbee extends to Tuscaloosa, Alabama, and Columbus, Missis-Vessels requiring five or six feet draught of water can ascend to St. Stephens, about ninety miles from the bay. The Alabama river is navigable by steamers to Montgomery, three hundred miles; and by vessels drawing five to six feet, one hundred miles, to Claiborne.

Mobile bay is about thirty miles in length, with an average breadth of twelve miles. The principal channel from the gulf has a depth of eighteen feet water at low tide, and on the upper bar, near the mouth of the river, there is about eleven feet at low tide; and eighteen to nineteen feet at high water. Owing to this fact, vessels of heavy draught, when laden, have to proceed to sea at high tide. The tonnage registered and enrolled at this port, in 1840, was 17,243; in 1841, it was 15,714; in 1846, 22,537; and in 1851, it was 27,327 tons. The tonnage entered and cleared from and to foreign ports in those years was as follows:

Years.	Entered.	Cleared.	Total.
1841	Tons.	Tons.	Tons.
	60,548	83,276	143,824
	77,190	97,051	174,241
	55,684	121,265	176,949

The region of country around Mobile, and flanking Mobile river and its various affluents, possesses a soil of the most fertile character, which, being reduced to a high state of culture, must look to Mobile as the depôt for the shipment of surplus products, as well as the entrepôt for all foreign supplies, or necessaries not produced in that section. The face of the country is level, and remarkably adapted to the cheap contsruction of railways. It will be seen by reference to page 337 of this report, that this feature in the topography of the country has not been overlooked, and that several very important lines of railway are already under contract, and in progress toward completion, which must largely increase the commerce of Mobile, not only with the surrounding coun-

try, but with foreign ports. The following statistics of the trade and commerce of the port during several years past, compiled from various authentic sources, will show, that with only some five or six hundred miles of river navigation, by which to reach the interior, her business has reached a very enviable position, both in imports and exports. It should be remembered, moreover, that Alabama is, comparatively, a new State, and more sparsely settled than many others, all parts of which are more directly accessible by natural channels. Mobile can hardly be said to have commenced her growth till since 1830, since which period she has grown in a more rapid ratio than any other southern city. The agricultural resources of the State of Alabama are supposed to be second to those of hardly any other for the production of the staple articles of that climate; and when, three years hence, nearly every portion of the State will become directly connected with Mobile by the completion of her system of railways, it may well be expected that the growth of that city will increase beyond all previous periods of her history.

Statement showing the exports and destination of cotton from the port of Mobile during the last ten years ending August 31.

Years.	Great Britain.	France.	Other foreign ports.	U. States.	Total.
	Bales.	Bales.	Bales.	Bales.	Bales
852	307,513	95, 917	27,048	144, 626	575, 104
.851	250, 118	46,005	26, 373	96, 029	418, 52
.850	162, 189	39, 973	11,927	111, 452	325, 54
849		63, 290	44, 525	140, 993	539, 649
.848	228, 329	61,812	29,070	120, 350	439, 56
847		39 , 293	19,784	116, 674	306, 90
846	206,772	66, 821	26, 824	115, 164	415, 58
.845	269, 037	68, 789	52, 811	130,601	521, 23
844		49,611	18,885	195, 714	465, 465
843		53, 645	26, 903	113,668	479, 24
842	185, 414	49, 544	6,919	77, 161	319, 03

This statement exhibits very little evidence of an extension of the area cultivated during the series of years presented, which is a corroboration of the necessity for easy communication with a market. After the opening of the railways, no doubt a rapid gradual increase in the exports of cotton will be observed. Besides cotton, a large quantity of staves, lumber, and naval stores are shipped from Mobile seaward. The business in staves and lumber, during the last three years, was as follows:

Articles.	1852.	1851.	1850.
Staves No. Sawed lumber feet.	228,481	360,779	677,9 43
	10,189,655	6,816,054	7,293,896

Statement showing the quantity of some of the principal articles of imports into the port of Mobile during the last five years ending August 31, 1852.

Articles.	1852.	1851.	1850.	1849.	1848.
D !				20.200	,,,
Bagging	17,012	30, 402	24, 901	29, 200	27, 27
Bale rope	16, 585	30,926	22, 460	26, 679	27, 01
Bacon	11,500	16, 637	9,269	6, 482	11, 39
Coffee	28, 538	25, 236	18, 928	26, 104	26, 41
Corn	83, 380	98,086	79,038	25, 573	21, 50
Flour	74, 329	95, 054	70,570	52, 311	33, 06
Hay	26, 852	27, 143	23, 189	17, 470	11,78
Lard	22, 481	20, 021	10,562	8,044	10, 91
Lime	31, 027	23, 745	19, 322	21, 155	9, 89
Molasses	18, 095	23, 673	18,042	10,647	15, 24
Oats	20, 985	29, 121	12, 429	15, 290	13, 16
Potatoes	22, 014	16, 248	20, 243	19,041	29, 05
Pork	15, 589	23, 949	8,016	5, 282	11, 59
Rice	1, 491	1, 832	1,387	1, 169	1, 22
Salt		128,700	154, 183	131, 273	70, 71
Sugar	6,083	6,634	7,760	5, 528	7, 67
Whiskey	15, 597	28,868	21, 440	17, 895	21, 34

The total value of the foreign imports at Mobile, during the last two years, may be seen by the figures annexed:

Years.	Value of imports.	Duties collected.
1852	#	\$131,249 96,276
Increase	261,514	34,973

This shows an increase of about sixty per cent. in one year, which is certainly very handsome, and augurs well for the future prospects of Mobile in the direct import trade.

The present may well be termed the railway era; and, perhaps, there is no other place in the whole confederacy likely to experience greater benefits, in proportion to its present population, from such improvements than Mobile. The railways now in progress, terminating at that point, must constitute her the *entrepôt* of foreign supplies for a very large extent of country.

The annexed table will show the tonnage entered from and cleared to foreign ports, in the district of Mobile, during a long series of years—from 1826 to 1851, inclusive. For reasons explained elsewhere, the tonnage cleared best exhibits the amount engaged in the export trade

of that city.

Statement exhibiting the number of American and foreign vessels, and also their tonnage, employed in foreign trade in the district of Mobile, which entered and cleared annually from 1826 to 1851, inclusive.

						~	-			U		4		~	•												1)	100
	Cleared.	Tons.	17, 893	16, 769	20, 124	19, 447	26, 336	25,660	31, 148	38, 353	39, 886	45, 460	52, 707	64,547	82, 590	65, 292	118,103	83, 276	89, 342	135, 007	104, 035	142, 523	97, 051	66,239	116,933	148, 116	112, 985	121, 265
AL.	Cle	No.	:		:		:				156	156	157	185	277	244	308	222	210	296	220	306	198	134	828	256 256	185	232
TOTAL	Entered.	Tons.	14, 774	17, 475	17, 506	17, 283	15, 316	21,966	22, 615	21, 156	18,993	30,884	31,238	27, 531	39, 187	39, 265	66,772	60, 548	57,970	105, 540	80, 771	110,606	77, 190	59, 758	61, 626	87, 061	96, 020	55, 684
	E	No.		:	:	:	;		;	:	8	117	122	36	154	173	202	176	145	234	188	254	158	129	131	156	152	119
	Cleared.	Tons.	1,807	3,073	4,765	4,953	4,059	10,953	12, 384	9, 286	10,614	12,665	17, 367	10, 725	12, 466	17,006	23, 552	35, 795	38, 095	55,900	53,938	62, 491	51,007	43, 135	49, 359	71, 593.	80,717	52, 518
POREIGN VESSELS.	Ö	No.	:	:				:	;	:	36	37	43	88	33	44	22	69	64	96	98	116	86	7.2	88	107	106	103
FOREIGN	Entered.	Tons.	1,596	3,163	4, 146	5, 400	4,826	11,840	11,915	9,918	10, 308	14,050	16, 323	10, 320	11,996	17,408	25, 564	36, 583	38,264	56,648	53, 676	62, 952	52,468	43, 162	45, 491	66, 213	84, 106	46, 498
	œ.	No.	:	:	:	:	:			:	32	45	43	22	35	45	61	69	5	96	98	117	68	79	2/8	101	112	96
	Cleared.	Tons.	16,086																									
VESSELS.	CIF	No.	:								120	119	114	156	244	500	251	153	146	200	134	190	110	22	146	149	92	129
AMERICAN VESSELS	ntered.	Топв.	13, 178	14, 312	13, 360	11,883	10, 490	10, 126	10, 700	11,238	8,685	16,834	14,915	17, 211	27, 191	21,857	41, 208	23, 965	19, 706	48,892	27,095	47,654	24,722	16, 596	16,135	20,858	11, 914	9, 186
	En	No.	:								52	75	62	65	122	128	146	107	81	138	102	137	69	20	55	55	40	23
	Years.		836	527	828	626	1830	531	839	833	1834	235	1836	837	838	839	1840	1841	1842	1843	1844	1845	1846	1847	1848	1849	(850	

FLORIDA.

The geographical position of this State, the peculiar productions to which its climate and soil are adapted, its extensive seacoast, and numerous rivers and harbors, and its various and valuable resources, and especially its important relation in respect to the commercial and navigating interests of the other States, render a particular notice of it in this report peculiary appropriate. Communications addressed to the undersigned by citizens of that State, in response to notes requesting information for such notice, are published herewith. Some of the documents accompanying these letters are appended. The information contained in these letters and documents in relation to the internal improvement of the State, and of its rivers and harbors, to its productions and resources, and its present trade and commerce, and that anticipated, is so copious that it is not deemed necessary to make any addi-Though these papers are voluminous, and though there are matters mentioned in them not directly pertinent to the object of the resolutions of the Senate, under which this report is made, and notwithstanding the undersigned may not coincide with the intelligent writers in all respects as to some matters they refer to, yet it has been considered just to them, and to the State, not to exclude any part of them.

A paper respecting "the Gulf of Mexico and Straits of Florida," prepared chiefly from notes and data furnished by an intelligent and distinguished officer of the engineers, and a map made by the "Coast Survey," to accompany that paper, are also herewith published, as being of general and national interest, and especially to the trade, com-

merce, and navigation of the United States.

As stated in the papers now published, though Florida can furnish ample and superior materials for ship-building from her inexhaustible forests, but few vessels are built in that State; and in fact most of those employed, and even most of those owned in Florida, are owned and navigated by citizens originally from the northeastern States. business of wrecking on those dangerous coasts and reefs is also pursued principally by the same class of persons, now residents of the keys, and other residents, emigrants from the Bahamas, who have become citizens of the United States, and by Cuban Spaniards. It may also be observed, that intelligent persons, acquainted with this subject, have suggested that, upon a rigorous exclusion by the British imperial and colonial governments of our fishermen from just participation in the northeastern fisheries; the latter may find in those at the southern extremity of the Union, resources for similar employment, equally profitable to them, and as advantageous to the confederacy; and that the realization of such prediction may injuriously affect the trade and interests of the British colonies. One great advantage of the southern fisheries is, that they may be carried on throughout the year. Such diver-, sion of the occupation of our hardy eastern fishermen from the fisheries now used by them to those appurtenant to the State of Florida, would also be accompanied by a large increase of the vessels built in that State by mechanical labor now employed in the eastern States in such business. The injurious effect upon the similar interests of the British colonies can readily be anticipated, and particulary when it is considered that, in the climate of Florida, mechanical labor can also be em-

ployed without cessation throughout all seasons.

The papers now published refer to other matters worthy of investigation and deliberate reflection by the statesmen of this confederacy. The great importance to the commercial and navigating interests of the Atlantic ports and of the gulf, extending beyond the Isthmus of Panama, of completing at an early period the fortifications at Key West and at Tortugas—of expediting the valuable labors of the "Coast Survey" in that quarter-of erecting proper light-houses, beacons, and buoys, &c., on the keys and coasts-of making Key West a naval station and a principal commercial depot and rendezvous for our shipping, and a point for the deposite of coal and provisions in large quantities, and of having a public navy-yard there—is strongly and cogently contended for in those papers. Doubtless, when the extensive fortifications now in progress at the two points designated are completed, our naval vessels, though of inferior force, can readily, in case of war with any other nation, by operating from Key West and from the Tortugas, owing to their peculiar position, keep the Carribean sea, the Gulf of Mexico, the straits of Florida, and the entire southern coast of the United States, free from the depredations of any naval enemy. When steamers become more generally substituted for sailing-vessels, the long and circuitous voyage that large vessels from Atlantic ports to the Gulf of Mexico, and further south, now often make through the Mona passage, or through the "Windward passage," and going on the south side of Cuba, (and around Cape Antonio, when bound into the gulf,) can be avoided, thereby saving several hundreds of miles of navigation generally with unfavorable winds. It has been estimated that exceeding four hundred millions of dollars in value in ships, merchandise, and produce, (a large proportion of the two latter items from and to the valley of the Mississippi,) annually passes near to Key West and Tortugas, and can be protected or controlled from such points. By the completion of the proposed improvements of the routes of passage or transit between the Atlantic and Pacific oceans, at Atrato, at Panama, or at Nicaragua, and especially if the route at Tehuantepec should be made susceptible of passage by a canal or transit by a railroad, the amount of property that will pass near to the two points designated will be immensely

Amongst the topics referred to in the papers now published, is the alleged probability of the extensive substitution, before the lapse of many years, of oils produced from the turpentine and rosin of the southern States, for spermaceti and other oils. If full credence is yielded to the writer's anticipations—that resinous oil (recently highly improved as to its manufacture) is destined to affect the profits of the labor and capital of the eastern States, now so extensively employed in the whale fisheries, and already greatly reduced by the decrease of the sperm whale—this subject becomes one worthy of grave consideration. It is alleged that, on account of its cheapness, resinous oil is already employed in the adulteration of most other expensive oils, and that it is beginning to be much used for machinery, for various manufactures,

and for lights. in lieu of other oils.

Reflection upon the suggestions just adverted to, and others contained in the letters respecting Florida, annexed hereto, and the accompanying statistical data, shows how closely blended, and intimately interwoven with each other, are the interests of the most remote sections of this confederacy, and how strong the bands are by which the perpetuity of our glorious and happy Union is secured. If the interests of one kind of industry in one section are assailed and injured by foreign illiberality, there soon opens in another part of this vast empire a new field for employment of a congenial character, to which that industry can be profitably applied. And they show that, upon the decrease of an important article of commerce, and valuable for use to the whole country, the enterprise and ever-ready inventive talent of our countrymen soon find new and fully commensurate means of supplying the necessities of civilized life and the wants of commerce. A cheap substitute for the product of distant seas is obtained from our illimitable and exhaustless forests, and new employment in its procurement and manufacture.

The suggestions in the paper upon the "Cotton Crop of the United States," appended hereto, and in relation to the vast capabilities of that region of this continent designated therein as the "Cotton Zone," (as yet but partially developed;) and as to the effect of the increased production of that highly important staple upon the destinies of this contederacy, deserve deliberate attention and reflection. This topic has been heretofore alluded to in this report, but it is deemed proper to publish the fuller statistical data in relation to cotton afforded by this paper, compiled from the best authorities. The influence of the interests of that region, and of the commercial and navigating interests of other sections, based upon and connected with it, is, in the conduct of the government of this country, conducive to the preservation of peace with other nations, and especially with those nations that afford profitable markets for that product. The restraints imposed by self-interest upon those foreign governments which must look to such products as the means for employment of several millions of manufacturing laborers, and hundreds of millions of capital, and as the basis of their commercial prosperity, from heedlessly engaging in disputes, or coming into collision with us, are much more powerful and effective in the preservation of amity than treaty stipulations, however formally and solemnly concluded.

The treasury tables show the value of all our domestic exports to foreign countries, for the last ten years, to be about \$1,258,332,000; the annual average value to be about \$125,583,000. Of these the south and southwestern States (being the region before mentioned as the "Cotton Zone") have, in the same period, exported upwards of \$651,767,000 worth of cotton, being an average amount of \$65,176,700 in each year; and it is estimated that upwards of \$40,000,000 is now annually used for home consumption, and for manufacture in the United States for exportation. The aggregate amount exported in 1849 and 1851, of the crops of cotton of 1848 and 1850, exceeded two thousand millions of pounds; and the avails of the exports of the crop of 1850 amounted, alone, to \$112,315,317. The same tables show the production, exportation, and home consumption of rice, and other products of

the region referred to. The upper Mississippi, or western States, export to foreign countries chiefly breadstuffs, provisions, and the like. The annual average of the last exports specified for the last ten years, from all the States, is less than \$27,000,000. Most of all these varied products are carried to foreign countries by American vessels, owned in the middle and eastern States, and manned by American seamen from the same section. The return cargoes, purchased with the proceeds of such products, are chiefly obtained through the agency of the intelligent merchants of the Atlantic cities, who thus protect the agriculturist from the unjust exactions of a foreign trader, unrestrained by a responsibility that can be enforced by our judicial tribunals, and without the stimulants to fair dealing springing from the ties of interest and feeling created by national brotherhood.

How cheering is the confidence these things inspire in every truly American heart, that the bands of union between the United States cannot be rent asunder by the efforts of foreign foes. They show that the infinite and varied resources of these States render them independent of, and impregnable to, any efforts from abroad to injure our commercial or other industrial pursuits, by illiberal exactions, impositions, restrictions, or prohibitions. They show that we have within ourselves the means and ability to meet and counteract any and all illiberality; and they also show that the preservation of our mutual interests, and the prosperity of our common country, depend, under Providence, upon ourselves alone; and that the cultivation of fraternal feelings and good will, the strict and faithful observance of the stipulations of our constitutional compact, and the never-ceasing inculcation and rigid observance of just and liberal principles and rules of conduct towards each other in all things, is the high and solemn duty of every American citizen.

The amount contributed by those States bordering on the Gulf of Mexico justifies me in calling attention to the following letter from the assistant Secretary of the Treasury, W.L. Hodge, Esq.:

Washington, 1852.

My Dear Sir: In reply to your inquiry as to the probable annual value of the trade of the American ports in the Gulf of Mexico, I do not exactly understand whether you mean to confine it merely to the value of the merchandise which arrives at and leaves those ports, or to include likewise the value of the shipping employed in the transportation of that merchandise. In connexion with the question of a ship-canal through Florida, the Senate, in the late session of Congress, requested information from the Treasury Department as to the probable value of the property which annually passed round Cape Florida, which the department, in its answer to the resolution, estimated at two hundred and fifty millions of dollars. This estimate seems large, and was generally so considered at the time, but I am, on further reflection, now convinced that it was an under instead of an over estimate, and I will give you the data on which this opinion is founded.

The great difficulty in arriving at the true value of the Gulf trade, is the impossibility to ascertain the amount of the coasting trade from the Atlantic ports, as no record is furnished to the custom-house of even

the kind of goods shipped coastwise; and, of course, nothing even approaching to the correct value can be ascertained from the outward manifests. Perhaps the most valuable cargoes shipped in American ports are those by the packet-ships to New Orleans, from Boston, New York, and Philadelphia, and I have no doubt that some single cargoes are not unfrequently worth one million of dollars, and that half a million is a very common value for them. Some four years since, one of these Boston packets—a vessel of 1,000 tons—was missing, and considerable anxiety was felt for her safety, and from the inquiries made as to the amount of insurance effected on her cargo, and the ascertained value of some of the heaviest invoices by her, it was pretty well ascertained that her cargo was worth \$700,000. When it is recollected that the entire supplies of the States on the lower Mississippi, and a large portion of those for the States higher up that river and its tributaries, are received through that city, the magnitude of them may to some extent be appreciated. The value of goods arriving at New Orleans from the American Atlantic ports, I should think would, at a low estimate, be at least fifty millions of dollars; but, in order to be perfectly on the safe side in this respect, I will estimate at that sum all the supplies thus received at all the Gulf ports, including New Orleans, Mobile, Pensacola, St. Marks, Appalachicola, and all the ports of Texas.

The value of foreign importations at New Orleans is about fifteen millions of dollars, and for the other ports of the Gulf not less than five

millions more.

Very correct statistical details are kept at New Orleans of all the receipts of produce from the interior, with thequantity of each; and an annual statement is published, with the estimated value, based upon the current prices of the year, approximating, probably, as near, or more near to the true value than such statements usually do. These statements show that the value of this produce annually received at New Orleans from the interior ranges from ninety to ninety-five millions of dollars; and allowing ten millions for the local consumption, it would leave eighty to eighty-five millions of dollars as the annual value of the export trade of New Orleans.

Mobile exports little but cotton, and the average receipt of which, there, is about 500,000 bales, worth at present prices about \$22,000,000. The exports, including cotton from the ports of Florida, and those from Texas, may, in the aggrégate, be safely placed at ten millions more, showing a total of exports from the American ports on the Gulf of

about \$115,000,000.

Upon the above data, then, the statement of the merchandise entering and leaving the American ports of the Gulf will be as follows:

Foreign imports	\$20,000,000
Coastwise imports	50,000,000
Exports	

I have not at hand, for reference, the record of shipping arriving

from the ocean at New Orleans annually, but it exceeds 600,000 tons, and at all the other ports of the Gulf it would probably be 300,000 tons more, making an aggregate of 900,000 tons, which, at the value of \$75 per ton, would be \$67,500,000; and as these vessels make the voyage in and out, the entire value of the tonnage which annually passes Cape Florida would be \$135,000,000; which, added to the preceding amount of merchandise, would make a grand aggregate of \$325,000,000 of property which annually passes to and from the American ports of the Gulf of Mexico. Although this estimate is made up in round sums, without going very particularly into detail, I have no doubt it is considerably below the real amount.

The value of the exports from the ports of the Gulf could, with a little care and attention, be very correctly ascertained, for they principally consist of articles of domestic produce, such as cotton, sugar, molasses, flour, lard, bacon, &c., &c., the quantities of which can always be ascertained from the outward manifests; and the prices are a matter of record, from day to day, throughout the year, in the daily publications of the public journals and price currents. The custom-house records, of course, exhibit the value of foreign importations; and the only difficulty in arriving at the correct value of the trade of the Gult would be in the coastwise shipments from the Atlantic ports. Nor do I see how this can be correctly ascertained, and it will have to remain as a matter of conjecture, though, in placing it, as I have done in this communication, at fifty millions of dollars, I feel well assured it is considerably below the actual value.

I regret extremely, that under the heavy pressure of official duties, particularly at this time, I cannot devote more time to the subject of your inquiry, and am obliged to give you such a hastily-prepared and

crude communication.

Very truly and sincerely,

WM. L. HODGE.

ISRAEL DEWOLFE ANDREWS, Esq.

There cannot be any surprise that the attention of the country, particularly the commercial portion, has within a few years been directed in a special manner to the value of the domestic and foreign commerce flowing through the Straits of Florida and Gulf of Mexico. That attention will now annually increase, for obvious causes; and, therefore, so apology is deemed necessary for the prominent position that subject, in connexion with the State of Florida, occupies in this part of the report, to which particular attention is requested.

Letter from the Hon. E. Carrington Cabell.

CITY OF WASHINGTON, House of Representatives, August 29, 1852.

DEAR SIR: I cheerfully comply with the request in your favor of the 10th inst., to furnish you memoranda of the works of internal improvement, and for the improvement of rivers and harbors, heretofore undertaken in Florida, and which it is anticipated are to be undertaken by the general government, or by the State, or associations in it; and likewise as to the general resources of the State. You can use these notes in any manner you please in your forthcoming report to the Treasury.

There is not, perhaps, any State of the confederacy that can be more benefited by the construction of judicious works of internal improvement, and by the improvement of its harbors, than Florida. Thirty-one years have elapsed since the provinces of East and West Florida were taken possession of by the United States, under the treaty of cession concluded in 1819. No works of internal improvement, except the "King's road," in East Florida, and a short and small canal (never completed) near Lake Okechobe, and De Brahme's surveys, in 1765, &c., were commenced by the British or Spanish governments whilst the provinces were under the control of either of those powers; and since their transfer to the United States, various circumstances have combined to retard the development of their valuable commercial, agricultural, and other resources.

The fortifications then near Pensacola, that at St. Marks, the fort at St. Augustine, and an old defence called Fort George, near the mouth of the river St. Johns, were all the military defences worth mentioning existing in the provinces at the cession. The United States have since established a navy-yard and works for the repair of vessels of war, and erected other forts, and built a naval and marine hospital near Pensacola; are building fortifications at the Tortugas, and at Key West, and near the mouth of the St. Mary's river, and have placed the fort at St. Augustine in good condition; but no other part of the extensive and exposed gulf and seacoast of the State is in any degree fortified; nor are there proper preparations made for the construction, at an early period, of such defences. The entire Atlantic and Gulf coast of the United States, from Passamaquoddy to the Rio del Norte, is about 3,500 miles, and of this extent the coast and reefs of Florida, from St. Mary's, around the Tortugas, to the Perdido, comprise upwards of 1,200 miles, extending over 8° of latitude and 7½° of longitude; being more than onethird of the whole coast.

Within a few years past, our "coast survey" has been commenced, but with meagre and inadequate appropriations, not at all in just proportion either to the necessities of the work, or to the amounts yielded for such surveys in other sections less important to the whole country. No canal or railroad has been constructed by the federal government in Florida, but the expenditure of a few thousands of dollars (whilst Florida was a Territory) for the removal of obstructions in some of the rivers and harbors, and for two or three partial surveys of important

routes of a national character, has given rise to allegations that profuse grants have been made for her benefit. She has, too, been unjustly reproached as being the cause of the immense expenditures so profitlessly made in the Seminole war; and by some she is held responsible for all the folly, waste, extravagance, impositions, peculations, and frauds committed in that war by the employees of the federal government, though not citizens of the State. A similar class have had the infamous audacity to impute to her people the purposed origination of the war, and a desire for its protraction, as a source of pecuniary gain. A devastated frontier of several hundred miles, and the butchery by the savages of hundreds of men, women, and children, throughout the State, and the utter ruin brought upon many of her citizens by that war, ought to be sufficient to prove the falsity of this accusation. Those who have propagated or countenanced such unscrupulous slanders against the people of Florida have not, when challenged, exposed a single case in which any citizen of the State has obtained payment of any demand against the United States, founded on fraud; and the public records of Congress and of the federal departments will verify the declaration that scores of Floridians have been refused payment of just claims, or postponed on the most frivolous pretexts and discreditable suspicions.

If attempts have been made in any instance, by individuals claiming to belong to Florida, to obtain from the federal treasury claims not founded in strict justice, such dishonorable exceptions do not excuse wholesale imputations against the citizens of the State generally, nor justify the excitement of prejudices against them, and the withholding

payment of just demands.

Both of the provinces, when acquired by the United States, (excepting only a small portion of country around the city of Pensacola, at the western extremity, and the region contiguous to the city of St. Augustine, and to the lower part of the river St. John's, in East Florida,) were in the possession of warlike and hostile bands of savages. The territories, when ceded, were covered with British and Spanish titles to lands, some for tracts of several thousands of acres. The "Forbes grant"extending from the St. Marks to the west side of the Apalachicola river, and including also the site of the city of Apalachicola, and several thousands of acres contiguous thereto, further west, and the adjacent islands of St. George and St. Vincent, and Dog island, and reaching upwards of sixty miles from the coast into the interior—covered an area of upwards of one million two hundred thousand acres. lands which had not been previously granted were included in the concessions by the King of Spain to the Duke of Alagon, the Chevalier De Vargas, and the Count of Punon Rostros, clandestinely made whilst the treaty of cession was being negotiated, and which, though annulled by a codicil to the treaty, are still claimed by the grantees, and those to whom the grants have been assigned, to be valid and in force. decision has recently been given by the United States court in Florida, in a suit brought upon the Alagon or "Hackley grant," against its The procrastination since 1821 of the definitive ascertainment and confirmation or rejection, of alleged Spanish titles, has been a serious evil to the State, and aided to retard its settlement and progress. The removal of many of the Indians from the upper and middle

sections to below 28° (N. L.) on the peninsula, was effected about 1825, under the treaty made with the chiefs at Camp Moultrie in 1823. Though this measure opened a large portion of the country to settlement, and when adopted was generally commended, experience has proved that it was injudicious policy. It has been the prolific cause of subsequent troubles, and of great sacrifice of life and property by the people of Florida, and of immense expenditures by the federal government; the responsibility for which, as before stated, has been most unjustly attributed to the inhabitants of the State. The measure referred to has put back the State at least a fifth of a century. Four large bands or towns of Indians, located on the Apalachicola, remained there till 1834, when they were removed peaceably, in conformity with treaty stipulations, to the Indian territory west of the Arkansas. In 1835 the Seminoles, Miccossukies, and other tribes, (concentrated, as above stated, near the fastnesses of the peninsula,) in resistance to the enforcement of treaties stipulating for their emigration west of the Arkansas, commenced predatory hostilities that soon ripened into open war, which lasted for seven years, and was attended with but limited and partially creditable success to the federal government, or to its officers, either in arms or in diplomacy. The best measure adopted by the United States during the war was the "armed occupation" act of 1842; though the policy pursued by the federal government, in the execution of the law, until the act of July 1, 1848, was passed, decreased its benefits. The contest was abandoned by the United States in 1842, an "arrangement" with the yet unsubdued Indians then being made (similar to two others after 1835, which they had violated) by the general officer commanding the United States regular forces in Florida; and which last "arrangement," in disregard of the previous treaties, stipulated that those Indians, headed by the chiefs Arpiarka and Bowlegs, might remain on the peninsula. Their whole number, it is estimated, cannot exceed eight hundred, and they are on paper restricted to prescribed limits, embracing many hundreds of square miles in area. Since that "arrangement," repeated disturbances, attended by bloodshed and the destruction of property, have occurred, owing, it is alleged by the citizens, to the depredations of the Indians outside of the country reserved for them; and, on the other hand, asserted by those inimical to the people of Florida to be occasioned by the encroachments of the frontier population upon the Indian reservation. The officers of the federal government have not restrained the Indians to the limits of the "reservation;" and while this duty is neglected, collisions and conflicts between the savages and the settlers near to the lines are inevitable. Means are now being adopted to effect the removal of the few hundred warriors and women and children yet remaining (and it is said in a state of destitution,) on the lower end of the peninsula, and which efforts it is hoped may be successful; but if they fail, prompt and efficient measures will certainly be taken by the State government to abate this evil, so blighting to the prosperity of Florida.

It is a striking fact in the history of the provinces of Florida, that since their first discovery by the Spaniards, nearly three centuries and a half ago, they have never enjoyed twenty successive years of peace and tranquillity, undisturbed by domestic warlike conflicts or foreign

hostile invasion. They have changed owners and masters several times. The late disturbances with the Seminoles brought destruction and ruin upon many Floridians, and the insecurity to life and property since 1835 not only deterred emigration to Florida, but hundreds of worthy and valuable citizens abandoned their plantations, and, with their families, went to other southern States, where they would not be daily liable to massacre and devastation, owing to the neglect, by the federal government, of the duty of protection.

The creation by the territorial legislature of some ten or a dozen banks, to three of which were given territorial bonds or guaranties to raise their capital, and the failure of all these corporations prior to or in 1837, the inability of any of them to retrieve their credit, and the hability imputed by the foreign holders of the "faith bonds" and "guaranties" to the State of Florida, since organized, for several millions of dollars, have been a serious drawback to the settlement and growth of the State. The State constitution expressly inhibits the State legislature from levying any tax for the redemption of these imputed obligations; those who effected the adoption of such restriction contending that the people of the State are not justly responsible for the improvident acts, allowed by Congress, of the territorial authorities, who, they insist, were the creatures solely of federal legislation and federal executive power, and also that the bonds were purchased by the holders in disregard of the conditions of the acts of incorporation, and with full knowledge of all the facts. Some contend, also, that the territorial banks were created without any competent legal power in the territorial legislative council therefor.

The annexation of Texas first, and the subsequent acquisition of California, and the discovery of gold there, also diverted emigration

from Florida to those States.

These events have greatly retarded the growth and prosperity of the State; and the present backward condition of her internal improvements should not be mentioned without also adverting, at the same time, to them as her apologies. Her people are as public-spirited and as enterprising as those of any other section, but their energies have been stifled by the series of untoward circumstances alluded to. Blessed with a genial climate and a fruitful soil, and advantages for improvement, with facility and cheapness unsurpassed by any country, it is believed Florida is destined, in time, to become a populous and one of the richest and most prosperous States of the Union.

The severe restrictions imposed in 1832 and 1834 upon our Cuba and Porto Rico trade are ably and fully exposed by Senator Mallory in his recent pamphlet on that subject. They are a serious grievance to the State. But for those restrictions, we should sell annually to those islands many thousands of dollars worth of agricultural products, stock, &c. The restrictions should be forthwith abrogated, if the commercial and agricultural interests of the Gulf and Atlantic southern States are entitled to any consideration; and, indeed, the dictates of sound policy and equal justice to every section of the Union impera-

tively demand the repeal of those laws.

It is proper, also, to state here that the failure of the federal government to fulfil in good faith its obligation to indemnify Spanish in-

habitants for the spoliations of 1812, 1813, 1814, and 1818, when the provinces (then belonging to Spain) were invaded by the troops of the United States; and the withholding of protection to the citizens of Florida during the protracted Indian hostilities which commenced in 1835; and the refusal to indemnify the many hundreds of citizens whose property was devastated by the savages, owing to the flagrant neglect of the federal government to fulfil its duty of affording proper protection to them; and, likewise, the refusal to pay others their just dues for supplies furnished to troops in service, and for services rendered the federal government—are all matters that have been severely felt in Florida,

and have all materially retarded its prosperity. The only railroad in Florida now in operation is the Tallahassee and St. Marks road. It was built about 1834, by an incorporated company. It now runs from Tallahassee to the seaport at the site of the ancient Spanish fortress of St. Marks, at the junction of the St. Marks and Wakulla rivers, a distance of about 23 miles, and is in good condition, Between twenty and thirty thousand bales of cotton, and large amounts of other produce and of merchandise, are annually trans, ported over this road. It originally crossed the St. Marks river, and run to a point on the bay of St. Marks, or Apalache, a short distance below its present terminus, where a flourishing village soon sprang up, but which was in 1843 totally demolished by an unprecedented hurricane and flood from the gulf, by which many lives were lost. This railroad is now owned chiefly by General Call. The cost of construction, of rebuilding it, and of repairs, has probably been \$250,000; but it is generally considered to be a good investment. If it is intersected by the contemplated great Central road, hereafter spoken of, it will increase in value. The Georgia "Brunswick Company," hereafter alluded to, it is understood, desire to connect with this road; and projects have been in contemplation to extend the Tallabassee road to Thomasville, Georgia, and to other points in Georgia, without reference to the Brunswick Company. Such extension will add to its importance.

Plank roads are being projected at several detached points in Florida, for short distances, and one several miles in length is now in course of construction from New Port (a rival town to St. Marks, situate a few miles above it, on the St. Marks river) to the Georgia line.

A small private railroad was constructed a few years ago, leading to Forsyth & Simpson's extensive manufactories and mills, near Bagdad, on Black Water river, West Florida; but it became useless, and has been taken up.

In 1835, a company was incorporated to build a canal or railroad to connect the Apalachicola river (through Lake Wimico) with St. Joseph bay; at which it was intended to establish a shipping port for the produce brought down the Chattahoochie, and Flint, and Apalachicola rivers, and from the surrounding country, and for receiving and forwarding merchandise to the interior, and as a rival to the city of Apalachicola. A road about nine miles long was put in operation, but, in consequence of the difficulties attending the passage of large steamboats through the shoal waters of the lake, it was abandoned in 1839; and another road running from St. Joseph, north, about thirty miles to Iola, a village established on the west side of the Apalachicola, a mile

above the Chipola river, was constructed at an expense of upwards of \$300,000. A bridge of superior construction, several hundred yards in length, was thrown across the Chipola, and the railroad continued upon it. A town was soon built, at the southern terminus, on the bay of St. Joseph, which bay has an excellent harbor, easily accessible to merchant vessels of the first class usually employed in southern trade. In 1841, the railroad, in consequence of pecuniary embarrassments of the company, occasioned by its immense expenditures, was abandoned, and soon after, the rails were taken up and sold to a railroad company in Georgia. Many persons contend that the site has superior advantages, and that with judicious management it would have succeeded, and that it may be resuscitated at some future period under favorable auspices. The proper and judicious improvement of the harbor of Apalachicola would, of course, prevent this, and especially if the inland communication along the coast (hereafter mentioned) from South Cape to the Mississippi is undertaken. Apalachicola now ships to foreign ports and coastwise upwards of \$6,000,000 worth of cotton and other produce annually; and receives a corresponding amount of merchandise for transportation into the interior; and has, besides, considerable trade.

Some miles of the Florida, Alabama, and Georgia railroad, near Pensacola, were graded as hereinafter stated several years ago; but

that work has been suspended for the present.

Excepting some local improvements at the city of St. Augustine, made by the federal government, and which were necessary for the preservation of its property there, the foregoing, it is believed, comprise all the works of the character you inquire of heretofore constructed or

partially constructed in Florida.

Florida has several capacious and secure habors, and of easy entrance. No less than twenty-six important rivers—the Perdido, the Escambia, the Black Water, and Yellow rivers, (through St. Mary de Galvez bay,) the Choctawhatchie, the Apalachicola, (into which flow the Chattahoochie and the Flint,) the Ockolockony, the St. Marks, and Wakulla, (through St. Marks or Apalache bay,) the Wacissa and Oscilla, the Suwanee or Little St. John's, and its tributaries, the Withlacoocy, and Alapahau, and Santaffei, the Weethlockochee or Amixura, the Hillsborough, the Nokoshotee or Manatee, the Talachopko, or Peas creek, the Caloosahatche, the Otsego, the two Caximbas, the Galivans river, Harney's river and Shark river; besides other streams of lesser note-flow from or through the State into the Gulf of Mexico. The five first-named rivers extend into the State of Alabama. They already bear upon their waters to the Florida Gulf shipping ports valuable products, which could be greatly increased by comparatively trifling artificial "internal improvements," and the value of the public and private lands in Alabama, contiguous to them, much enhanced. The Chattahoochie river is the boundary between Alabama and Georgia, and is navigable for steamboats for upwards of 150 miles northward from its junction with the Flint, where they form the Apalachicola. Flint extends upwards of 100 miles, into one of the most productive sections of Georgia. The Ockolockony, the Oscilla, the Suwanee and the two first-named of its tributaries, all extend into Georgia; and if all of them are not susceptible, by artificial improvement, of being

made navigable for steamboats of a large class, they can be made equal to most of the ordinary canals in operation in the middle States, to within a few miles of their respective sources, in affording facilities for the transportation of produce to the coast, and of merchandise into the interior. Every one of the rivers named, not only at their respective outlets to the gulf, but with reference to their navigation in the interior, is susceptible of artificial improvement, the beneficial effects of which would be commensurate to the expense incurred. The country at large would not only be benefited by the promotion and extension of the agricultural and commercial interests of the contiguous region, and the development of new sources of wealth and prosperity that the improvements suggested would cause, but the facilities for cheap and ready defence of an extensive coast frontier (now greatly exposed to a foreign maritime enemy) that such improvements would afford would be of incalculable national advantage. In fact, the federal treasury, as to most of them, would be more than reimbursed for all outlays (if it undertook the works) by the enhanced value of the public lands in their vicinity; and their consequent increased sales; and if undertaken by a State or States, or by corporate associations, and a proper portion of the lands were granted in aid of the works, the United States would be remunerated by the increased value of the portion retained. The States of Alabama and Georgia are directly interested in the improvements referred to to an extent quite equal to the interest of the State of Florida. Some years since, the legislature of the last-named State directed an examination of the Ockolockony river with a view to its improvement; and it has, also, at different times, made examinations with a view to the improvement of the navigation of the Chattahoochie and Flint rivers; and it has expended some money on both. Alabama has as yet done but little to promote the interests of her southeastern counties in obtaining facilities for the transportation of produce to the gulf through Florida.

It is believed that the improvement of the bays and harbors, and of their outlets, to the gulf or sea, can be rendered easier, less expensive, and more substantial and permanent, by the adoption of the system of closing unnecessary delta or outlets; and, instead of removing bars or deepening channels by cxcavation, making portions of them positive and immovable obstructions; thereby confining the waters to as few channels as possible, and causing them to force and deepen those channels for their debouchement to the gulf or sea. Especially on the southern Atlantic coast, and in the gulf, is this plan deemed to be the most eligible.

Several different examinations, reconnoissances, or surveys have been made of some of these rivers, and their outlets, and reports furnished as to their susceptibility of advantageous improvement; which can be found by reference to the public documents, of which a list is annexed in note A.

That an inland water communication from the Mississippi river to South Cape, in Middle Florida, could be obtained for steamboats of a medium size, and coasting craft, was many years ago maintained by high authority. The expense necessary to obtain such inland communication, by canalling between the nearly continuous line of bays or sounds running parallel with the gulf coast from South Cape to the Mississippi, and by closing the mouths of one or two streams, and stopping a few

shoal inlets, is really trifling when the immense advantages to flow from such work are estimated. But I will not dilate on this undertaking. The public documents enumerated in note A afford full information on the subject, and demonstrate, to my judgment, the entire practicability of effecting results especially beneficial to the western States, and to Alabama and Florida, and, when such communication is extended across the peninsula to the ocean, important to the Atlantic States.

On the Atlantic or eastern coast of Florida, above or north of *Cape Suble*, there are several important streams, which could also be improved by widening, straightening, and deepening, and by removing obstructions in the navigation, at comparatively trifling expense, considering the benefits that would result therefrom in the same way above mentioned.

The sound behind the tongue of land terminating at Cape Florida receives the Miami river, Little river, Arch creek, Rio Ratones, and Snake creek, and extends several miles north, parallel with the sea-shore. New river inlet, Hillsborough river and inlet, Jupiter inlet, St. Lucia river and inlet, Halifax river and inlet, Mosquito river and inlet, Mantanzas river and inlet, St. Augustine harbor, North river, San Pablo creek, St. John's river, Nassau bay and river, and the river St. Mary's, (the latter being the boundary between Florida and Georgia,) are all important points on the Atlantic coast. As is heretofore stated, in respect of the gulf coast between South Cape, in Middle Florida, and the Mississippi, a nearly continuous line of inland "sound navigation," for coasting craft and steamboats of the medium size, drawing six or seven feet, it has been suggested, (and with great plausibility,) may be effected from Cape Florida to the mouth of the St. Mary's river by closing securely and permanently some of the inlets mentioned, and by excavating less than thirty miles of canal, and by widening and deepening, in a few places, the natural channels of the interior communications now existing; being the "sounds," and also the "lakes" and rivers, adjacent to, and extending, (with but trifling interruption,) along the entire eastern coast of the State, and running parallel with the sea-shore, at a short distance therefrom, in the interior. And it has been predicted that, after such improvement, the natural effect of the tides from the sea, through the "inlets" remaining open, and of the accumulation of the waters flowing into the sounds from the interior, and restrained to such outlet to the sea, and the currents caused thereby, would be, not only to increase the depth of the channels of the sounds, but to deepen several feet and keep open the entrances from the ocean at St. Augustine, and St. John's, and to such extent as always to admit large vessels adapted to foreign trade. The entire expense of such improvements, it is estimated, would not exceed two hundred and fifty thousand dollars. But if it should be three or four times that sum, it would not equal the value of the benefits resulting in a national point of view, and to other States besides Florida. Such improvements would render the entire coast from St. Augustine to Cape Florida forever impregnable to any enemy, and even exempt it from annoyance; without the necessity of fortifications, except at the outlets to the sea, left open, and deepened, as suggested; and many coasting vessels from the eastward, going southward, might, by such inland communication, avoid the necessity of stemming the strong current of the "gulf stream;" of crossing the Bahama banks; and also

the other hazardous experiment of hugging Cape Carnaveral, and keeping close to the Florida coast, in trying which so many such vessels bound southward are wrecked. The documents referred to in note A

will give you valuable information on all these points.

The clearing out of the small streams emptying into the sounds at the southern part of the peninsula, and the connexion of the sources of those streams by canals with the interior and fresh waters of the Pahhayoke or Everglades, covering an area of at least eighty by thirty miles, and with the large and deep fresh-water lake Okechobe, further north, and with the interior river Kissimme, running into said lake from Tohopekaliga lake and other lakes, (the waters extending ninety miles north from the mouth of the river,) would not only reclaim vast quantities of rich sugar lands, now submerged by the overflow of the waters, at certain seasons, but would be the means of facile interior communication, and also between every part of the interior region and the seacoast, and afford easy and cheap transportation for all the produce intended for exportation to foreign ports or shipment coastwise. The extensive swamp called Halpatioke would become dry and cultivatable. And the character of the country is such, that the cost of such improvement would not be great. The upper soil is light and easy of excavation; the substratum of clay with which it is underlaid is tenacious, and prevents the difficulties so often caused by caving or The face of the country is level, and no material obstructions arising from rocks will be found. The principal obstacle to the undertaking is, that it is of a character which renders it necessary that every portion of it should be commenced and carried on to completion simultaneously, and speedily, requiring a large laboring force and united, combined, and concurrent action.

So too, on the western coast of the peninsula, the deepening of the outlets, and the connexion of the rivers emptying into the Gulf with the same interior waters abovementioned, would be equally beneficial. The vast swamp called the Big Cypress, or Atseenhoofa, could be reclaimed. And the completion of such works on both sides would probably effect a means of passage for small coasting-vessels and steamers across the peninsula, thereby avoiding the perilous navigation of the keys and reefs farther south, and extending southwestwardly, upwards of a hundred miles from Cape Florida and Cape Sable, into the gulf.

The improvements suggested in the two last paragraphs are subjects of comment in the valuable documents annexed to a report made by Senator Breese, of Illinois, from the Committee on Public Lands of the Senate, at the 1st session 32d Congress, August 28, 1848, Doc. No. 242. Other important information as to the agricultural capabilities, and products, and trade, and fisheries, and other resources of Florida,

is to be found in these documents.

On the peninsula a railroad from Tampa bay to the navigable waters of the St. John's, near the head of the navigation of that river, has been spoken of, and will probably in a very few years be undertaken. When the adjacent country becomes more densely populated, such work will certainly be constructed.

Another road from Tampa, running northwardly up the peninsula,

avoiding the water-courses on both sides, and extending as far up as Jacksonville, has been strongly urged, and has many advocates.

Above Tampa, on the peninsula, various projects have been suggested to connect the lower with the upper region of the peninsula, and to connect the Gulf of Mexico with the Atlantic.

It is said that the head-waters of the Kissimme can be connected with those at the sources of the St. John's river, so as to be navigable for boats transporting produce.

A canal for boats or barges drawing four or five feet, has been spoken of as practicable at small expense from the Ocklawaha, a branch of the noble river St. John's, to the navigable waters of Weethlockochee, or Amixura.

A canal from the sound near Smyrna, on the eastern edge of the State, to lakes which are the head-waters of the St. John's river, a few miles west of the seacoast, or from a point on the sound to the same waters, some distance farther south, has also been suggested.

A railroad from Pilatki, on the St John's river, to such point as may be ascertained to be the most eligible, on the gulf coast, near Cedar Keys, or near Waccassah bay, has likewise been spoken of; as has also a similar work from Jacksonville, on the St. John's; and also one from the mouth of the St. Mary's to the same points on the gulf. In fact, several different railroads from the west side of the St. John's river, farther down to the gulf, are in contemplation.

One from Picolati, intended to extend east to St. Augustine; one from the head of navigation on Black creek; and one from Jacksonville, or a point near that town, to some point on the gulf, or on the Suwanee river, have been spoken of; and, likewise, a railroad from St. Mary's river to the Suwanee. Charters have been obtained, in past years, from the Florida legislature for some of the last-mentioned works, to be undertaken by corporate associations; but none of them, it is believed, have as yet had any route properly surveyed, preparatory to carrying out their charters and commencing such work practically. The routes of two of these contemplated works are laid down on the map enclosed to you, of one of which it is understood some years since a reconnoissance was made by an officer of the United States army, (Captain Blake,) since killed in battle in Mexico. The same officer made a partial survey of the harbor of Tampa, and of a portion of the eastern coast of the State, and of the sounds contiguous thereto, which are referred to in the said list of documents, marked A.

The "thorough-cut," or "great ship-canal," or "ship-railway" across the head of the peninsula, has been written about a great deal within the last thirty years. It has formed the subject of congressional speeches and reports, and of newspaper essays; and, many years since, a board of the United States engineers, at the head of which was General Bernard, made a partial survey, with a view to ascertain its practicability and its cost. His report and maps of his surveys are to be found in vol. iv. Ex. Doc., 2d sess. 20th Cong., 1828-'9, Doc. No. 147 Different termini have been indicated on the gulf side for this work. The St. John's river has generally been mentioned as the most eligible terminus of said work on the eastern side. An appropria-

tion of \$20,000 will probably be made at this session of Congress for

the completion of the survey for this work.

Whilst the certain practicability of effecting the completion of this stupendous and magnificent project to the full extent anticipated by some of its advocates has by many been deemed questionable, (and it seems General Bernard did not believe in its favorable success,) yet other disinterested and impartial persons, of a high order of intelligence, and possessing accurate knowledge of the location through which the canal must be constructed and of the soils to be excavated, confidently contend that it is entirely practicable. The immense cost of the construction of a ship-canal is an insuperable obstacle to its being undertaken by the State of Florida, or by any association of individuals there. The State constitution contains provisions virtually restraining the legislature from borrowing money on the faith and credit of the State, even for such purpose. Therefore, if such work is undertaken, it must be by the general government, and upon the most considerate estimates, founded upon previous examinations and accurate surveys by scientific and impartial engineers. The same observations apply to the construction of the "ship-railway" that has been suggested. If the construction of either of these works is ascertained to be feasible, it will be beyond all question the most important undertaking of the kind in the United States. No one can deny that its beneficial results will be eminently "national." Whensoever any route inside of the Gulf of Mexico, whether through Texas, through eastern Mexico, or by Vera Cruz, or by Tehuantepec to the Pacific, may be established, a passage across Florida, as a means of speedy and safe travel, and for the transportation of merchandise, will become imperatively necessary, to enable the eastern and middle Atlantic States to participate fully in the benefits of such route. The proposed canal or road may be located on a direct and straight line drawn along the coast from Cape Hatteras (to pass which in sailing from New York a considerable deflexion east must be made) to the mouth of the Rio Coatzacoalcos, on the gulf side of the isthmus of Tehuantepec. The legislature of Louisiana, smothering all selfish local considerations, at a recent session adopted resolutions asking Congress to institute examinations as to the Florida "shipcanal;" and patriotic and enterprising citizens of eastern and of western States, with wise forecast, look to the ascertainment of its practicability as a result of the highest importance to the general interests of the whole confederacy—as well to the Atlantic, southern, northern, eastern, middle, and interior States, and those on the Pacific, as to the gulf and Mississippi States. Our Atlantic merchants see that it will greatly facilitate our future trade, not only with the Pacific generally, but with China and with the East Indies.

Whatever doubts may be entertained as to the practicability of the construction and successful operation of a "ship-canal!" or "ship-railway" across the peninsula, it is not doubted that canals for boats drawing six or seven feet water may be made, either from the head of navigation on Black creek, or from one of the two southernmost prongs or branches of the St. Mary's river, or from the St. John's river, directly to the capacious, deep, and never-failing lake, called "Ocean pond," about thirty miles westwardly of Whitesville, on Black creek, and aboutforty

miles from Jacksonville, on the St. John's river. From this lake it is supposed such canal can be continued to the navigable waters of the Santaffee, and, by the improvement of the navigation of that river and of the Suwanee to the gulf, can also, without doubt, be constructed; and the expense is not estimated to be so great as to render it an injudicious investment. It is believed, also, by some persons, that a similar canal for boats, commencing at the head of navigation near the great southern bend of the St. Mary's river, and running across near to the southern margin of the vast lake or swamp called Okefenoke, and directly to the head-waters of the Suwanee, with proper improvements to the navigation of the St. Mary's and Suwanee rivers, is practicable, and would be highly beneficial as a means of transportation of produce, lumber, naval stores, and merchandise, and that it would also drain and reclaim tens of thousands of acres of the richest lands in that region. Such work would be greatly beneficial to the State of Georgia, which State has heretofore made examinations and surveys, with a view to its construction.

A railroad has been projected from Brunswick, Georgia, to the gulf coast, on which coast different points for its termination have been indicated. It is stated that an association is now being organized to raise funds and commence such work. Some years since, partial reconnoissances, and some unperfected surveys, were made of such work, from Brunswick, on two different routes entering Middle Florida; but, from circumstances not fully understood, the commencement of the work was postponed, and the results of the surveys have never been made public. Unless the proposed work should enter Florida much farther to the east than has been stated is intended, and become connected with the great trunk or Central railroad hereafter spoken of, so that it would result to some benefit to East Florida, it will be regarded with disfavor in that section of the State, and meet with such opposition as probably will prevent its extension into the State at all. It would certainly be a competitor and rival of the Central Florida railroad, if allowed to abstract from it the southwestern travel and transportation, for the benefit of southern Georgia, by leaving the State of Florida in the western section.

To all the suggested improvements terminating on the gulf coast, near to the delta of the Suwanee, some persons have objected that formidable difficulties will be encountered to their successful operation, owing to the want of a safe and good harbor there, of easy access near to the shore for vessels drawing over seven or eight feet, and owing also to alleged hazards attending the approach of that part of the gulf coast. I do not, however, hesitate to say that I regard these objections as fallacious; and that safe and good harbors for vessels of twelve or fifteen feet draught can be found, and which can also be greatly improved by artificial means.

The first great work to be undertaken by the State of Florida is, in my judgment, unquestionably, at the present time, the trunk or Central railroad, commencing at Pensacola and running eastwardly from Deerpoint, at the opposite side of Pensacola bay, along or as near the route of the old Bellamy or Federal road as is practicable to the river St. John's; the distance being about three hundred and fifty miles. A road can be

run from St. John's to St. Augustine, from Jacksonville, thirty-eight miles, and from Picolati, eighteen miles. All the different sectional interests of the upper portions of the State would be promoted by such work. Lateral railroads to necessary points on the gulf coast, and to the towns where the country trade is carried on, north of the main road, can be made. These lateral roads could be extended into Alabama and Georgia, and, when it may be deemed advisable, connected with the railroads in those States; and in a few years not merely Florida, but her conterminous sister States, will be interlaced and bound together, and mutually strengthened by bands of iron. sugar, cotton, tobacco, rice, Sisal hemp, tar, turpentine, rosin and resinous oils and lumber, and other products of those fertile regions, can be speedily, cheaply, and safely transported to market, either on the gulf or Atlantic, or for exportation to foreign ports, or shipment coastwise, in time of war or of peace; and in time of war material aid for the defence of the coast against foreign assault at any quarter of the State can always be at once furnished from the interior. Yet in the construction of such work, the just share of the general improvement fund of the State due to that section detached from the immediate and direct advantages and conveniences of this road, and lying farther south than its effects would be felt, should not be expended, but should be scrupulously retained for the benefit of such section. The facilities such road would afford the federal government for the cheap and rapid transportation of the mails in times of peace, and the like facilities given for the transportation in time of war of troops, munitions of war, and subsistence, would be of incalculable national benefit. The river St. John's, which is generally spoken of as the eastern terminus of the Central railroad, extends from its mouth three hundred miles south, running nearly in the middle of the peninsula, its sources being chains of large lakes extending south beyond the sources of the Kissimme. The bar at the entrance of the St. John's cannot ordinarily be passed by vessels drawing over thirteen feet, but inside it is navigable by vessels of twentyfive feet draught as far up as Jacksonville, and by those drawing twelve feet up to Lake George, and two feet water can be had to Lake Poin-The tide seems to have influence at Volusia. The trade of the river at present is chiefly lumber. More than thirteen large lumber mills (mostly steam) are on the river above and below Jacksonville, the principal town upon the river. About three hundred and fifty vessels annually are loaded with lumber and produce on the St. John's. quantity of lumber annually shipped from the St. John's river is estimated at 50,000,000 of feet. An effort will be made this fall to deepen the water on the bar, which it is sanguinely anticipated can be done so as to admit vessels at low water drawing twenty or twenty-five feet, and by an expenditure of about twenty thousand dollars. effected, though it should cost twenty times such amount, it would be a wise disposition of the money. In case this work succeeds, so soon as the great Central road is finished to the St. John's, a large and flourishing commercial city is sure to spring up in a few years at the terminus on the river, wherever it may be.

Partial surveys of the eastern part of one proposed route for this road, terminating at Jacksonville, the prominent point on the St. John's,

were made some years ago by an association of eastern capitalists, chiefly from Boston; but they have never been made public, and it is stated the association was prevented by the Indian war from pro-

gressing with the undertaking.

A railroad has been contemplated from Pensacola, across the southern corner of Alabama, to Montgomery, Alabama; or to Columbus, Georgia; or to some point in Georgia, lower down on the Chattahoochie river; and to unite with some of the Georgia roads running to the Atlantic seaboard. Great interest is felt in the completion of this road at the city of Pensacola, and throughout the surrounding country, and on the different routes proposed for it; and the federal government is also deeply interested in its being finished, insomuch as it would afford certain means for the defence and protection of the valuable public property at Pensacola-worth many millions of dollars, and as the federal treasury would be benefited by the enhanced value of the public lands in Alabama through which the road would run, and their increased sales. On these points I refer you to the documents specified in note B, hereto annexed. The surveys for the chief part of one of the contemplated routes of this road were, it is understood, perfected some years since, and several miles of the road near to Pensacola were graded, and other work done. It has, however, been suspended for some time, awaiting the action of Congress granting the right of way through the public lands, and also grants of alternate sections along the line of the road. Bills making such grants have passed the Senate at different sessions, but, as yet, the association have been unable to obtain the concurrent action of both houses at the same session to the same bill.

Connected as the great Central railroad of the State will be, at Pensacola, (or at any of the gulf ports that may be selected,) with the commerce to distant foreign or American ports in the gulf and elsewhere, and especially with steamships to Tehuantepec so soon as the interoceanic communication is made at that isthmus, (whether the Florida road is extended to Mobile and New Orleans or not,) it must soon become the principal line of southern and southwestern travel to and from the eastern and middle States, to California and Oregon, and the Pacific generally. It is the natural and direct course of such travel. The sagacious and enterprising merchants of the Atlantic cities engaged in the Pacific trade, and in the trade to China, and to the East Indies, will also soon discover that such work may be used to promote their interests. Of its profitable success as a pecuniary investment, little

doubt can be entertained.

A canal from St Andrew's bay to the Chipola river has been contemplated for many years, and an association has been incorporated to construct such work. Full surveys have been made, and the feasibility of constructing either a canal or a railroad fully demonstrated. in the hands of citizens of respectability, who possess means to complete it, with such assistance as may be afforded by the general government, and by the State. Extensive tracts of valuable public lands, in the vicinity of this work, have been reserved from sale by the United States for "naval purposes." These reservations are profitless, and the lands should be sold. Their being held as at present is injurious to the country in which they are situated. Sound and judicious policy demands that the federal and State governments, both, should encourage the speedy construction of the canal or road from St. Andrew's bay. The bay has a good entrance for large vessels, and it is a safe and capacious harbor. Intersecting, as such work probably would, (by an extension for a short distance into the interior,) the great Central State railroad, its completion at once will be a valuable auxiliary to the cheap

The State legislature, however, (under the advice of the "State Board of Internal Improvements," composed of citizens from each section of the State,) will, it is expected, this fall, when its biennial session is held, devise some additional measures for carrying out the most judicious plans of internal improvement to those heretofore adopted. The schemes, wiles, and intrigues of speculators and jobbers, pecuniary and political, it may be anticipated, will, in Florida, (as sad experience has proved in other States,) have to be encountered and overcome, and thwarted, by the just and patriotic citizen. Attempts, by means direct and indirect, to appropriate the lands given to the State for purposes of "internal improvement"—the "swamp lands"—and every other available resource, to objects merely local, sectional, and selfish, will, it may be conjectured, be made; but the sleepless vigilance of the guardians of the public and general weal will be faithfully exerted to prevent any combinations for such purposes being successful. cliques, having their own interests exclusively in view, have so often elsewhere been able to consummate their designs, will admonish the executive and legislature to watchfulness and caution. I place the firmest reliance on the intelligence, patriotism, and prudence of those departments of the government of my State in this regard.

and speedy construction of the latter.

The cost of the great Central Florida railroad, it has been estimated, will not probably fall short of four millions of dollars. The proceeds of the sales of town lots at the extreme termini, and at several points on the route where the trade of the surrounding country will be concentrated, will go far in aid of the work. But unless the federal government does, as it should do, grant to the State alternate sections on both sides of the road on its entire line, and for several miles laterally, as the State has not at present the adequate means for its construction, it will probably be deferred. Few foreign capitalists are disposed to embark in such an undertaking, as a permanent investment of their means, especially when the proposed work is in a country distant from them, and the progress and conduct of which work they cannot personally attend to; and the assistance of those who may subscribe for stock, as a matter of present speculation by its sale, is generally of doubtful value. I append hereto a statement obtained from the General Land Office, (marked C,) exhibiting the number of acres of public lands in Florida, "surveyed" and "unsurveyed," on the 30th of June, 1851; also, the quantity "offered for sale," and the quantity "sold," up to the same day, and other authentic and valuable information as to the federal domain in the State. By a reference to the last annual report of the General Land Office, it will be seen that Ohio, with an area of 12,354,560 acres less than Florida, has received grants in aid of "internal improvements" for 681,135 acres more than Florida; Indiana, with an area of 16,293,960 acres less, has received 1,109,861 acres more; Iowa, with an area of 5,346,560 acres less, has received 326.078 acres more than Florida, and claims (and justly) 900,000 in addition as having been granted, making 1,225,078 acres more than Florida: Wisconsin, with an area of 3,420,160 less, has received 358,400 acres more than Florida; Illinois, with an area of 2,472,320 less, has received 2,246,490 acres (the Central Railroad grant) more than Florida; and a similar disproportion will be seen to exist with respect to other States. And with respect to donations for schools, &c., a like disproportion exists between the allowances to her and to most of the other States; and, by some process, whilst Louisiana is reported as having 8,677,998 acres of swamp-lands, Michigan and Arkansas, each, upwards of four millions and a half, Mississippi 2,239,987 acres, Illinois 1,883,412, Missouri 1,517,287, Wisconsin 1,259,269, Florida is set down as having 562,170 acres! But this, it is understood to be, is because all those lands in the regions yet unsurveyed are not yet officially reported; nor have the State designations progressed as far as the other States mentioned. The swamp-lands in Florida will probably exceed those in any other State. Most of the lands heretofore offered, and yet remaining unsold, (and sixteen-seventeenths of the lands offered are yet unsold,) will remain unsold for many years to come, unless some of the public improvements suggested should enhance their value. least eleven-twelfths of all the lands in the State are yet owned by the United States. A very large portion of them, even if the principal improvements suggested should be made, would not probably for some time afterwards be sold at the present minimum price of the public lands. The fact that of 17,043,111 acres surveyed and offered for sale prior to June, 1851, but 1,000,407 acres have been sold, (and many of them have been offered for sale for twenty-seven, twenty-five, twenty, fifteen, or ten years,) proves that in the present state of things they are utterly worthless to the United States. On the proposed routes of the great Central railroad there are, in different sections of the State, vast tracts of these lands at present of no value to the general government, to the State, or to individuals. Rich and exhaustless beds of marl are to be found in several sections of the State. Those at Allum Bluff, on the Appalachicola river, but a short distance from the place where the great Central road will probably cross, are of great value. That road alone will, by the cheap transportation of the marl, afford facilities for fertilizing the lands contiguous to it in every section of the State, but especially in Middle and West Florida; and at the same time the lumber, tar, turpentine, rosin, and resinous oils that may be obtained from most of such lands, prior to their being thus prepared for and put in cultivation, could be readily conveyed to market by the same means.

Florida is the fifth State in size in the confederacy. Her area is 59,268 square miles, or 37,931,520 acres. She possesses an advantage had by no other State of the Union. She alone, of all the present United States, can cultivate and raise advantageously, and for the supply of the other States on this side of the continent, tropical fruits and other highly valuable tropical products! She will have no rival in this respect among her sister States till further "extension" and additional "annexation" is effected. You are referred on this subject to the public documents and other authentic books specified in the note D, hereto annexed. In a

few years, whether in time of war or in time of peace, not only the Atlantic cities, but the entire valley of the Mississippi, can be supplied by her with most tropical productions with greater facility, and cheaper, than they can be procured from Cuba, or from any other of the West India islands. A tithe of the sum necessary to purchase Cuba, if Spain should be willing to dispose of it, and a fiftieth part of the amount of expenditure necessary to conquer and annex that island by arms, or to obtain it in any other mode, honorable or dishonorable, if expended by the federal government (even as above indicated, by liberal grants of land) in aid of works of internal improvement in Florida, would render that State more valuable than Cuba ever can be to this confederacy. Such policy might also subdue some of the covetings and cravings many seem to have for the "Queen of the Antilles," (as they designate that island,) and obviate in some degree the necessity which they insist now exists of its being forthwith wrested from Spain and possessed by the United States. War and bloodshed would also be thereby averted.

The most judicious policy that can be adopted by the federal government with reference to Florida, in my judgment, is, to transfer without delay to that State every acre of public lands within its borders, stipulating that the proceeds thereof hereafter realized by the State shall be exclusively devoted to internal and harbor improvements within the State; the United States reserving only the necessary sites for light-houses, fortifications, and other structures, under the control of the federal government. At any rate, the transfer of all lands that at this time, or hereafter, have been offered for sale at \$1 25 per acre for ten years, and that remain unsold, should be made, and a similar rule could be wisely applied to all the States wherein public lands lie.

No one, it is presumed, will deny that the coast frontier of every part of the United States is peculiarly a subject of legitimate concernment for the federal government, or that, to a certain extent, the States have yielded the partial control thereof to the United States; and that, in some respects, it may be regarded as the common property of the people of all of the States of this confederacy. The lines of jurisdiction between the States and the federal government, and between the respective State governments, as to such coast frontier, are distinctly marked by the federal constitution. The federal government has not been invested by the States with any right of property to the coasts. By article 4, section 2, clause 1, of the federal compact, it is stipulated that "the citizens of each State shall be entitled to all privileges and immunities of citizens in the several States;" and it has been held that the free right of navigation, of commerce, and of piscary, and in fine of every usufructuary privilege of the coast waters, (not essential and exclusively local,) and that are common rights, as distinguished from exclusive rights of property, in a State, or in individuals, pertain equally to the citizens of the United States of every State of the confederacy, without distinction in favor of the citizens of that State of which such coast is the frontier. Such police regulations as sound policy may render necessary can be rightfully established and enforced by that State, and it may enact laws for the protection and conservation of such common rights, and to regulate their use, so as to prevent their abuse; but such laws must apply equally to its own citizens as to the citizens of the other States. The general rights of navigation and of commerce by all, and that of piscary in waters not exclusively local, cannot be withheld for the exclusive benefit of its own citizens. But no other State may rightfully legislate as to such privileges on the coasts of a sister State; nor does the federal government possess any constitutional power to regulate by law the right of piscary on the coasts of a State, nor to cede by treaty, or otherwise, the privilege of using such fisheries to a foreign power, or its subjects, any more than it can regulate by law any other common right in a State, or cede away a part of the territory of a State to a foreign power. To defend and protect such coast frontier in which the citizens of the United States in all the States have such common interest, as well as because it is a part of one of the States; to "repel invusions," (see article 1, section 8, clause 15, constitution United States,) is the bounden duty of the federal government. It is, in the clause just cited, invested with full power; and the national compact twice enjoins the fulfilment of such duty, (see clause last cited, and article 4, section 4;) and the same instrument contains an express constitutional guaranty that "it shall protect each of them [the States] against invasion," &c. The federal government builds fortifications, and navy yards, and ships, and armories, and arsenals, and military, and naval, and marine hospitals, and custom-houses, and it establishes lines of mail steamers to Great Britain and Europe and to the Pacific; it has erected and maintains an Observatory, and a Military and Naval Academy; has a "Coast Survey" establishment; sends ships of-war on exploring expeditions; and Congress, within the last fifteen years, has spent millions of dollars for the making and publication of all kinds of books, on all kinds of subjects. Some of the improvements on the coasts, and leading to the coasts of Florida above noticed, are as directly and immediately important and essential for the "defence" and "protection" of that section "against invasion" as forts, ships, &c., can be elsewhere. This, it is true, is owing, in some degree, to the peculiar geographical position, insular information, and character of that section. Under such circumstances, to deny the legitimate constitutional power of the federal government to "provide for the common defence" by aiding and promoting such necessary improvements in Florida, is to deny to it the power to employ the proper and necessary means of fulfilling such constitutional duty. Whilst the obligation of the general government to "defend" and "protect" a State "against invasion" in time of war, is conceded, to object that the federal constitution does not allow prudent and proper and necessary preparation by it, in time of peace, for the fulfilment of such duty economically, advantageously and successfully, is extending "the salutary rule of strict construction" into absurdity. The attenuated logic by which objections are made to the means of defence and protection as unconstitutional, because for sooth the resort to such means may also, and otherwise, promote other interests of the State, or of the confederacy, has little weight with me. But when the aid desired can be yielded in the exercise of the undoubted constitutional authority of Congress to dispose of the public lands for the common benefit, all scruples with respect to grants of such lands in aid of those inprovements in the States where the lands lie should be extinguished. impolicy and injustice of the federal government retaining all the lands

unsaleable at the present minimum price fixed by it for a series of years after they have been offered for sale, without yielding any taxes for them to the States wherein they lie, not contributing anything in any mode for the making and repair of ordinary highways and bridges through them, is severely felt by every resident (whether rich or poor) of a country in which there is a large quantity of unsold public lands. The personal labor the settler is compelled to yield in this way, to enhance the value of the property of the United States, in addition to his other taxes, is an onerous burden. Difficulties will probably ensue from the granting to one sovereign State the control and ownership of lands within another sovereign State, even if the lands are made liable to just taxation; and still greater difficulties will arise as to the adoption of any just rate of distribution among the States. Some proposed rules of distribution are absurd as well as iniquitous. By the rule of population, New York would at this time receive 33 acres to every one received by Florida, and yet Florida has 1,200 miles of seacoast to defend, whilst New York has less than 150 on her Atlantic frontier. Florida has 7,671,520 acres more in area than New York. She is larger than New York and Massachusetts or New York and Maryland together; she is larger than New York, New Jersey, and Connecticut all together; and, leaving out Maine, more than twice as large as all the other five New England States together. Florida has no mountains; and properly improved she will have within her limits less waste land, not susceptible of cultivation, than either New Hampshire, or Massachusetts, or Maryland, or New Jersey, though neither of those States is one-seventh of her size; and she would be capable, in a few years, if improved as suggested, of sustaining comfortably a larger population than New York of itself, or all the New England States united. Population is a shifting rule, and not based on any just principle when adopted with reference to grants to the States. If the grant is intended to be given to the citizens of each State disposed to emigrate to and settle on such lands, the federal government had better make the grant directly to the occupant. The only true and just rule as to grants in aid of works for coast defence, or any other national objects, is the necessity or importance of such work, and the advantage that will result to the country therefrom. The policy of promoting the settlement of an exposed frontier State by free grants of lands to occupants, and to the State in aid of internal improvements, is, it is conceived, quite as obvious, and fully as strong, as any policy of defence, as to a future war with a naval power, that can be adopted. The expense incurred in one such war of three years, necessary to defend the 1,200 miles of seacoast in Florida, would probably exceed fourfold all that is necessary for the government to yield in aid of internal improvements in that State! Our entire national coast should be defended-"No foe's hostile foot should leave its print on our shore." The dishonor of a successful invasion by an enemy will be as great, if the assault be made at Cape Sable or Appalachicola, as if made at Philadelphia or Washington. Besides, if such improvements are made, the means of defence thereby permanently established in Florida will enable the federal government to provide more readily and early for other exposed points, and to furnish troops which could not be withheld or abstracted from Florida,

in her present condition, during such war, without gross dereliction of

federal duty.

That the scientific and able engineers educated for and in the federal service ought to be (when the federal government has so little appropriate employ for them as at present, and generally in times of peace) assigned to duty in the *States*, in surveys for public improvements, is an opinion becoming quite general; and if such course is adopted, it will probably prevent the abolition or reduction of such corps. The services of such officers would be most valuable to Florida in her surveys for the various works I have mentioned above.

The population of Florida, by the last census, was but 47,167 white persons, 928 free colored, and 39,309 colored slaves; in all, 87,401. If Congress will encourage and foster the growth and prosperity of the State by aiding and promoting the works indicated, in the manner suggested, emigration thither from Maryland, Virginia, North Carolina, Kentucky, Tennessee, Missouri, and other States, will speedily commence; and by the year 1860, her population will be quadrupled, her resources and wealth augmented in still greater ratio; and the most exposed and defenceless section of the Union rendered impregnable. By even yielding to the State merely the lands made valuable by the works she may construct, and with the means thereby afforded for the employment of labor in the construction of such works, she will be enabled to do much. Grant her all the vacant land, and (excepting the "ship canal") she may effect all that her own interests or those of her sister States demand, now or hereafter.

A reference to the map of Florida now sent to you, made at the Bureau of Topographical Engineers in 1846, and to a chart of the lighthouses of the United States, also enclosed, will show you that, with upwards of 1,200 miles of dangerous sea-board, there are fewer lighthouses in the State than there are appurtenant to the cities either of New York or Boston. Property of upwards of two hundred millions of dollars in value, it is estimated, annually passes along a large portion of the Florida coasts, which are, in many places, as much exposed

and dangerous as the coast of any section of the Union.

In the document referred to in note E, annexed hereto, you will find stated the value of the property annually wrecked on the keys and reefs and coasts of South Florida, and which is carried into Key West for adjudication of the salvage, for each of the ten years last past. A large amount wrecked elsewhere, on the upper coast, and that which is totally lost, is not estimated; nor is the great loss of human life adverted to. The average value of all the property annually wrecked and lost on all the Florida coasts and reefs cannot be less than a million of dollars!

You are referred to the statements procured from the Treasury Department herewith sent to you, and to the documents specified in note. F, for the tonnage and foreign exports and imports, and other statistics

of the State.

You will find in some of the documents I send you authentic information as to the *fisheries* on the coast of Florida. It is predicted that, before many years, these fisheries will become a source of profitable employment to thousands of seafaring men, who will be induced

thereby to become residents of the islands and coasts contiguous to them; and they will be looked to particularly by the inhabitants of the great western valley for the supply of that article of subsistence; and other sections of the Union, and foreign countries, may likewise be furnished from them. They pertain exclusively to the State, the constitution whereof asserts its right; and they are regarded as destined to be of as much importance and value as the fisheries on the coast of the British colonies at the northeast end of this continent.

In addition to the documents above mentioned, I enclose you a letter (G) respecting the State of Florida from that intelligent officer, J. C. G. Kennedy, esq., of the "Census Bureau;" and also a statement, (H,) compiled from the laws, of all the appropriations of money or lands made by Congress since the acquisition of the Floridas, in any wise in

aid of public improvements therein.

Though hundreds of invalids and valetudinarians annually resort to Florida from the North and West, during the winter months, the State has been slandered as being insalubrious. The letter of Mr. Kennedy proves that on the score of health she stands ahead of any other southern State, and is exceeded by but one old State and but two new States of the Union. Some transient visiters to Florida, ignorant of the ordinances of Providence for the preservation of health in tropical regions, and ignorant of the genial effect of the climate upon the soil, and comparing the soil of Florida with the rich bottom-lands of the western and middle States, denounce the lands of Florida as "barren sands," as "worthless," &c. Mr. Kennedy's testimony, founded on the unerring test of official statistics of facts, disproves all these notions, and establishes the fact that in proportion to the improved lands, and in proportion also to her population, her agricultural products exceed in value those of any other State of the Union; and so, also, in proportion to her slave population, they exceed in value those of any other of the slave States.

Very respectfully, your obedient servant,

E. C. CABELL.

ISRAEL D. ANDREWS, U. S. Consul.

APPENDIX.

C.

Statement compiled from report of Commissioner of General Land Office as to public lands in Florida, June 30, 1851, and other documents in the General Land Office.

Area in square miles	59, 268
Area in acres	37, 931, 520
Surveyed	22, 314, 689
Unsurveyed	15, 616, 831
Offered for sale	17, 043, 111
Sold	1, 000, 407
Surveyed and not offered.	5, 271, 578
Advertised in fall of 1851	1,780,322

Surveyed and not sold.	21, 314, 282
Donations and grants for schools, (16th sections.) and for university	954, 583
Kentucky dear and dumb asylum	20, 924
Internal improvements, grant on admission	500,000
Grants to individuals, "armed occupants," under acts of 1849 and 1848, natented	000,000
up to June 30, 1851	52, 114
up to June 30, 1851. Public buildings, seat of government.	6, 240
Grands for infinitary services, ecc., (general infiltery land warrants located in	·
Florida)	31, 240
Reserved for "live oak" for navy	163, 888
[This does not include sites for forts, light-houses, &c., or town lots of United	
States in Pensacola and St. Augustine, nor the keys and islands on the coasts, all	
of which are reserved for the present; the departments having decided that an	
act of Congres is necessary to release a reservation by the President for any	
purpose.	
Reservation for town of St. Mark's	305
Confirmed private claims, (Spanish grants, &c.)	1, 939, 789
Swamp lands returned to June 30, 1851, not including those in the regions yet	, ,
unsurveyed, and others not designated, supposed to amount to several millions	
unsurveyed, and others not designated, supposed to amount to several millions of acres	562, 170
Reserved temporarily for Indians under General Worth's arrangement, including	,
"neutral ground" prescribed by War Department, estimated at	3,600,000
Land sold in year ending June 30, 1851, 27,873 acres: receipts same time, \$\\$	34,842. The
expenses in Florida, of the United States, as to the public lands, for some year	rs exceed the
receipts.	

G.

CENSUS OFFICE, WASHINGTON CITY, August 23, 1852.

DEAR SIR: In compliance with your request, I enclose you sundry printed statements compiled in this office in January last from the official returns, relating to the population, products, &c., of Florida, and also of other States, so far as is necessary to verify the comparisons made below. The statements are generally correct; but typographical and other errors, which exist to an inconsiderable extent, will be rectified in the official publication soon to be made. These corrections will not change materially any of the results given.

It seems:

1. That the number of deaths in Florida in the year ending June 1, 1850, was 933, the population being 87,400. This is but one in 93 (and a fraction) in that year, and is less in proportion than in any other State of the Union, except Vermont, Iowa, and Wisconsin.

The Territories of Oregon and Minnesota, it appears, had fewer deaths in 1850, in proportion to their population, than any State. This may in some degree be accounted for by the fact that emigration thither is mostly of male adults in the vigor and prime of life, and there are in these countries comparatively fewer aged and infirm persons, and fewer children, than in the old settled States.

2. The entire area of Florida, in acres, is 37,931,520; and of this there were in 1850 only 349,049 acres of improved land. The official average valuation of these improved lands, made by the returning officers, is \$18 per acre, being much less than the average valuation of improved lands in any other State or Territory.

Florida has less improved lands than any State, except Rhode Island and California.

3. Florida has acres of improved lands	349, 049
Unimproved, attached to above	1, 236, 240
Cash value of improved lands	
Value of farming implements and machinery	\$658,795
Horses	10,848
Mules, &c.	
Milch cows	
Working oxen.	5,794
Other cattle.	182, 415
Sheep.	23, 311
Swine.	209, 453
Value of live stock	\$2,880,058

Wheat, bushels of	1,027
Rye, bushels of	1, 152
Indian corn, bushels of	1,996,809
Oats, bushels of	66,586
	1,075,090
Rice, pounds of	998, 614
Tobacco, pounds of	45, 131
Week mounds of	
Wool, pounds of.	23, 247
Peas and beans, bushels of	135, 359
Irish potatoes, bushels of	7,828
Sweet potatoes, bushels of	757, 226
Buckwheat, bushels of	55
Value of orchard products, in dollars	1,280
Wine, gallons of	10
Value of produce of market gardens	8,721
Butter, pounds of	371,498
Cheese, pounds of	18, 015
Hay, tons of	2,510
Other grass seeds, bushels of	2
Hops, pounds of	14
Flax, pounds of	50
Silk cocoons, pounds of	6
Cane sugar, hhds. of 1,000 pounds	2,752
Molasses, gallons of	352, 893
Beeswax and honey, pounds of.	18, 971
Value of home-made manufactures	\$75,582
Value of animals slaughtered.	\$514,685
- MANO OF MANAGES AND PROVINCES	9022,000

4. It seems that, in proportion to the quantity of improved lands, Florida produces more cotton than any other State. So, also, in proportion to the slave population, she produces more cotton than any other slave State. So, also, in proportion to her entire population, she produces more cotton than any other State of the Union.

5. She produces more sugar (from cane) in proportion to the lands in cultivation, and also in proportion to her slave population, and also in proportion to her entire population, than any

other State of the Union, except Louisiana and Texas.

6. Florida raises a greater quantity of tobacco than any of the other States, except Connecticut, Maryland, Virginia, North Carolina, Tennessee, Kentucky, Ohio, Indiana, and Missouri; and, in proportion to the lands in cultivation, and to the population, greater than several of those States. She raises a greater number of bushels of sweet potatoes than any State of the Union, in proportion to the land in cultivation, and slave population, and aggregate population.

7. The number of cattle in Florida compares with that of any State, in the same way.

8. No account of oranges, figs, olives, plantains, bananas, yams, or other tropical fruits, or of the coompty or arrow-root, or sisal-hemp, or other tropical productions, can be given at

this time from this office.

There is great difficulty in estimating the value of the different products of the different States, and of the same products in different States; but, from a general and hasty estimate from the best data I can refer to, and from comparison, I am satisfied the value of the agricultural products of Florida, (of course in the State,) in proportion to the area of improved lands, and to the population, slave or free, and both, will compare favorably with the value of the products of any State of the Union. When, therefore, the lower value of the land and of the agricultural implements used is estimated, and also the superior health of the State is considered, your anticipations of the comparison being advantageous to your State will be realized.

Florida is behind many of the States in her corn crop, and she raises but a small quantity of wheat, rye, or oats; and it appears the value of all investments in the State of Florida in cotton manufactures is \$80,000, which is of cotton goods—making 624,000 yards of sheeting annually. It is impossible at this moment to furnish the statistics of the lumber business

in Florida, which amounts to a large sum annually.

I have the honor to be, sir, with great respect, your obedient servant,

JOS. C. G. KENNEDY, Superintendent.

Hon. E. C. CABELL.

F.

TREASURY DEPARTMENT,
Register's Office. August 25, 1852.

3	
DEAR SIR: I have caused a clerk to compile the memoranda desired by you of the	statistics
of commerce and navigation in Florida in 1850-'51, which are as follows:	
1850, imports from foreign ports	\$95,109
1851dodo	94,997
1850, exports to foreign ports	2,607,968
1851do	3,939,910
Tonnage in 1850, 9.365 tons: in 1851, 11 272 tons	0,000,000

Of the exports in 1850, \$2,546,471 was from Appalachicols; and in 1851 there was \$3,858,983 from the same port. In 1851, the foreign exports from St. Mark's were \$61,755. Much more

than half of the tonnage of the entire State is from Key West.

Of the value of shipments of foreign or domestic merchandise or products from and to Florida ports, coastwise, to and from other ports of the United States, no returns are made to the treasury. It is presumed that the value of the shipments of cotton, tobacco, rice, sugar, limber, tar, turpentine, and other products of Florida so shipped coastwise, vastly exceeds the value of the foreign importations.

The exports, foreign and coasewise, from Florida ports, greatly exceed the products of the State. This you will perceive by comparison of the Census Office returns, and estimating them with the statistics you can procure from the chamber of commerce of each port, or merchants, of the coastwise exports, adding the latter to the foreign exports above given. This is accounted for by the fact that a large amount of the products of the States of Alabama and Georgia is sent to the Florida Gulf ports for shipment.

. I have the honor to be your obedient servant,

N. SARGENT.

Steam-marine of the United States on the Gulf of Mexico, from Cape Sable to the Rio Grande.

. 44- 1							
Districts.	Ocean steamers.	Ordinary steam- ers.	Propellers.	Tonnage.	High pressure.	Low pressure.	Стоwв.
St. Mark's, Florida	12	2 1 78 	2	Tons and 95ths. 45 00 98 00 13,146 00 7,410 00 1,588 59 657 00	78 4 10 5	9	5 8 2,790 395 200 75
Total	12	95	2	23, 244 59	98	10	3, 473

The above is taken from Messrs. Gallagher & Mansfield's report of 1852. The steamers at Appalachicola are not stated. There are between fifteen and twenty steamers running on the Appalachicola, Chattahoochee, and Flint rivers, and in St. George Sound, and along the coast from that port, the tonnage of which amounts to perhaps 3,500 tons, and the number of hands so employed not less than 350. Messrs. G. & M. say, in a note to their account, "only those vessels at New Orleans which ply on the Gulf of Mexico" are given by them; the Mississippi river boats being stated in another part of their report. Key West is not given in the above; but there are not more than two steamers along the coast not included.

The Gulf of Mexico and the Straits of Florida.

The Gulf of Mexico is the southern boundary of this confederacy from the "Dry Tortugas" to the mouth of the Rio Grande del Norte; and it is remarkable for the absence of capes and of indentations, in comparison with other seas. The coast between these points is about 1,500 miles in extent. The streams emptying into the gulf from the State of Florida are mentioned in another part of this report. Proceeding westwardly, the following rivers debouch into the same common reservoir: The Alabama, Tombigbee, and Mobile rivers, with the waters of their respective tributaries, some reaching inland into the States of Mississippi and Georgia, enter the gulf through Mobile bay, from the State of Alabama. The Pearl and Pascagoula, from the State of Mississippi, and the mighty Mississippi, (appropriately styled "Pater Fluviorum,") flow by its different deltas through the State of Louisiana. Still further west, the Sabine, dividing Louisiana and Texas, and the Angelina and Neches; the Trinity and Buffalo bayou, (through Galveston bay;) the Brazos San Bernard, and the Colorado, (by Matagorda bay;) the Navidad and La Vaca (by La Vaca bay;) the Guadalupe and San Antonio by Pass Cavallo; and the Nueces—all flow into the gulf from the interior of Texas. The Rio Grande divides Texas from our sister republic of Mexico, and extends from its outlet, (latitude 25° 56' north, longitude 97° 12' west from Greenwich,) northwest, as such boundary, to El Paso, at the 32d parallel north latitude; and still further northward to its sources in the mountains of New Mexico, more than 1,300 miles in The cities, towns, or shipping ports of Tampa, length from its mouth. Cedar Keys, St. Mark's, Appalachicola, St. Joseph's, St. Andrew's, and Pensacola, in Florida; the city and shipping-port of Mobile, in Alabama; the towns of Pearlington and East Pascagoula, in the State of Mississippi; the city and port of New Orleans, in Louisiana; and Sabine City, Galveston, Houston, Velasco, Brazoria, Matagorda, Lavacca, Indianola, La Salle, Saluria and Copano, Corpus Christi, Brazos Santiago, and Brownsville, in Texas—are all situated on or contiguous to the shore of the gulf.

The Mexican States of Tamaulipas, Vera Cruz, Tobasco, and Yucatan, to Cape Catoche, form the southwestern and southern gulf coast. The rivers Tigre, San Fernando, Santander, the Panuca, and the Tula, (by Tampico harbor,) the Tuspan, the Alvarado, and the San Juan, the Coatzacualcos, the Tobasco, Laguna de Santana, Lake de Terminos, the Rio San Pedro, the Usumasinta, and the San Francisco, with others of less importance, flow into the gulf from Mexico; and the towns of Matamoros, Tampico, Tuspan, Vera Cruz, Alvarado, Minatitlan, Frontero, Laguna, Vittoria, and Campeachy, Sisal and Merida, are all upon

or near to the coast.

A glance at the map of this continent will show that this great estuary is of an irregular circular form, embracing from 18° to 30° north latitude, (upwards of 750 miles,) and from 81° to 98° west longitude, (nearly 1,000 miles;) that the extent of the coast, from Tortugas to Cape Catoche, is about 2,700 miles; and that the waters of the gulf cover over 750,000 square miles. Inside the gulf there are none but small islands close to the mainland, except those off the capes of Florida and

those adjacent to the coast of Yucatan. The distance from Tortugas (24° 31′ north latitude, longitude 83° 07′ west) to Cape Catoche (latitude 21° 30′, longitude 87° 11′) is a little more 260 miles, and the course about southwest. Projecting nearly between these two points, but several miles nearer to Cape Catoche than to Tortugas, is Cape Antonio, (latitude 21° 52′, longitude 84° 59′,) the southwestern extremity of the island of Cuba, which island reaches some 70 miles north and eastwardly, and then some 580 miles further to the east. Cuba on the south, and the reefs and keys of Florida on the north, (between 75 and 80 nautical miles distant,) form the entrance of the "Straits of Florida."

It is more a practical fact than a mere figure of speech that these straits are but a continuance of every river falling into the Gulf of Mexico; and that the place where their united waters, flowing through these straits, mingle with those of the Atlantic ocean, is the true mouth

of each and all of these rivers.

The "straits" extend from the Tortugas up to latitude 27° 50', their entire length being more than three hundred miles; their course from Tortugas to Cape Florida is nearly east, and, after rounding that cape, is nearly north. After this change of course, they are confined, on the west side, by the eastern peninsular coast of Florida, and on the east side by the Bahama banks, the Bimini isles, and the westernmost Bahama islands, and the Matanilla reef, (to latitude 27° 35' north, longitude 79° 11' west,) where their barrier on that side ceases. The distance from the "west head" of the "Great Bahama" island (latitude 26° 42' north, longitude 79° 05' west) to the Florida shore, due west, (longitude 80° 3' west,) is less than seventy miles; and, in the entire course of those straits, at no point does their width exceed eighty miles. The immense waters of the gulf, contributed by the numerous rivers above named, and others of less magnitude, are all forced, on leaving the gulf, by the powerful currents coming into the mouth of the gulf from the south and southeast, through the Caribbean sea, from the coasts on this side of both American continents as far south as the Amazon, and beyond Cape St. Roque, and even from the equator and western shores of Africa, across the Atlantic ocean, through these narrow straits. The vast volume of water thus confined rushes through these straits sometimes at a velocity of five miles per hour. After passing the Matanilla reef, the Gulf Streum, as it is called—gradually spreading till opposite the capes of the Delaware, it is widened to upwards of two hundred miles continues increasing in width still further north and east; and its influence as a current, and upon the temperature of the waters of the North Atlantic, is perceptible as high up as the Banks of Newfoundland, and beyond the 44th degree of north latitude.

There is no other such sea as the Gulf of Mexico, so entirely surrounded as it is by countries of such superior agricultural, mineral, and commercial resources. No similar gulf exists, the natural and indispensable outlet for vast interior States, with a population of many millions of republican freemen, unequalled by any people, noticed in ancient or modern history, for general intelligence, industry, enterprise, and independence, and who are consequently thriving and prosperous beyond example. These States extend upwards of twelve hundred miles from its shores. Their wealth is exhaustless. Their population

may be quintupled, and they can still sustain such number in plenty! Their soil, and especially that of the great valley of the Mississippi, is of surpassing fertility; and their contributions to the commerce of the world, through this gulf, are the varied productions of a region spreading over 18 degrees of latitude and the same degrees of longitude, and adapted to the diversified wants of nearly every other country. And this great "inland sea," though easy of egress, is, at the same time, readily susceptible of defence as a mare clausum, by the States situate on its shores, against any foreign intrusion they may decide to interdict. The Mediterranean or Adriatic is not equal to it, nor the Baltic, nor the sea of Marmora, nor the Euxine, superior to it, in this respect.

The realization of the magnificent project, conceived by the genius of Cortez, of making the Gulf of Mexico a great thoroughfare for the commerce between Europe and China and the East Indies, and the Pacific ocean generally, by a communication through the Isthmus of Tehuantepec, will immeasurably augment the importance of this sea. To the benefits which that great man, more than three hundred years ago, foresaw would result to European commerce, must now be superadded the advantages such communication will give to American commerce with Asiatic countries, and in the Pacific, not inferior in value to that of Europe.

But especially would such communication be valuable to the United States of America for the facilities and security it would afford to the intercourse and trade between those portions of this confederacy bordering on the Pacific ocean and those on the Atlantic side of this continent. It is not deemed extravagant to estimate that the trade, commerce, and navigation of the United States, through Tehuantepec alone, if a ship canal there be practicable, would, within five years from the completion of such canal, exceed the aggregate value of all the present external trade and commerce and navigation we now have, large as Markets would then soon be open to our enterprising merchants in supplying to the hundreds of millions of inhabitants of Asia, and the rich, extensive, and populous islands in the Asiatic seas, not only articles of necessity, but also of luxury, from our surplus but still constantly increasing stores; and our trade with the islands in the Pacific, and to the foreign States on its shores, would, within the same period, increase tenfold. We could then, as to all this trade and commerce, enter into full competition with every other commercial power—and even if all were combined against us—on terms of great advantage, that would soon obtain and secure for us a permanent ascendency. A railroad across the same isthmus would result advantageously to us in the same way, though not to the same extent.

A ship canal, or railroad, at either of the other routes of passage or transit to the Pacific, further south, generally spoken of, (Nicaragua, Panama, or Atrato)—and a railroad is already in progress at Panama—must advance our commerce and navigation in the same way; but it is not believed they can be as valuable to this country as the "Gulf route" would be, if put in successful operation.

These great improvements are alluded to because, whichsoever of them is adopted, and if all of them should be put into operation, most of the trade, commerce, and navigation to or through them, or in any wise arising from them, must necessarily pass through the "Straits of Florida." All of such trade, commerce, and navigation, through Tehuantepec, from the Pacific, not expressly destined for gulf ports, whether bound to Atlantic ports or Europe, or elsewhere, would be obliged, in getting out of the gulf, to go near to Tortugas and Key West.

The chief portion of all our trade, commerce, and navigation with Cuba and the West Indies, and especially with Jamaica and the Windward islands, and with the eastern coasts of South America, now passes through these straits, and likewise the trade, commerce, and navigation of Europe with those places, in sailing-vessels, on the homeward voyage. Steam-vessels, on their outward passage from the Atlantic States, also pass through the straits, and most of our coasting-vessels, even of the largest class, bound for the gulf—they, generally, crossing the Bahama banks. The voyage through the Windward passage, or the Mona passage, going near Jamaica, and round Cape Antonio, is sometimes pursued; but it is several hundred miles longer, and is attended with its peculiar hazards, and also delays, that render the other passage preferable.

An estimate of the trade, commerce, and navigation of the Gulf now annually passing through the Straits of Florida; and also of the other trade, commerce, and navigation of the United States and of other countries, above referred to as pursuing the same channel, has stated it as probably amounting to \$400,000,000, (four hundred millions of dollars.) That it must increase, and rapidly, and to an immense amount, and particularly that of the United States, if we are blessed

with a continuance of peace, no one can doubt.

With reference to this trade, commerce, and navigation, the Straits of Florida, and the islands, and keys, and coasts of Southern Florida, and particularly the positions of Key West and Tortugas, are of the highest consequence to this country in time of war and of peace. They are equally as important to the commercial and navigating interests of the Atlantic States, and of the Atlantic seaports as to those of the gulf States and of the gulf ports. They are important to the same interests in California and Oregon. They are important to the agricultural interests of the great valley of the Mississippi. They are important as the outposts of the military and naval defences of the entire gulf and southern Atlantic coasts, and as points from which to assail an enemy. They are essential for the protection of all our commercial and navigating interests, not merely in, or to, or from, the gulf, but with Cuba and most of the West Indies, and with the eastern coasts of this continent further south, and with South America. The prospect of an extensive and valuable trade with the rich countries bordering on the Amazon and its tributaries being soon opened to us, is favorable; and the recent auspicious changes in the affairs of the Argentine Republic promise an increase of our commerce with the La Plata and the States on its waters. Our commerce is extending with Brazil and with the States on the western shores of South America; and all of the trade, commerce, and navigation just enumerated, and that in the Pacific, and through it to China and the Asiatic seas generally-the anticipated augmentation of which is before adverted to-must of

necessity pass within sight of these two positions above designated, and most of it through the entire extent of the "straits."

Tortugas is to the Gulf of Mexico, to the Straits of Florida, and to the Caribbean sea, and in fact to the entire West Indies, what Malta is to the Mediterranean and Adriatic seas, and the countries on their shores. The position of Gibraltar with reference to the commerce passing through the Gut into and out of the Mediterranean is not as commanding as is the position of Key West, with reference to all the immense commerce of this country, foreign and domestic, and that of foreign countries, passing through the Straits of Florida. The fortifications at the Dardanelles do not more completely control the entrance to the sea of Marmora and that to the Euxine; or the Castle of Cronberg that of the Baltic through the sound at Elsinore; than the forts at Key West and Tortugas will, when finished and garrisoned, and aided by the modern naval power of steam-frigates-the most formidable ever known—control the entrance to the Straits of Florida, and its

entire passage.

Key West is one of the finest harbors in the United States. largest ships-of-war can enter it at any time with facility. The anchorage is secure, and it and also the Tortugas are being well fortified. Tortugas protects Key West on the south and west, and the latter is equally essential to the full protection of the former. As Key West has a channel of ingress and egress from and to the Gulf of Mexico, as well as from and to the Straits of Florida, and supported as it is by Tortugas, having similar channels, it would require for the blockade of a naval force in either thrice the strength of the force blockaded; and the blockading force must necessarily be so divided as to prevent any junction giving it effective superiority. These two positions will be formidable to any power that may provoke this country to a war, and that has possessions in, or convenient to, the West Indies; for, besides the Gulf of Mexico, and not only the Havana and Matanzas, but the entire island of Cuba, and every other West India island, and the whole Caribbean Sea and its coasts, could be successfully blockaded by a vigilant and effective force of war-steamers to rendezvous there. From thence any point in the region named could be assailed in a few hours.

Another consideration gives consequence to this position with reference to the interests of the trade, commerce, and navigation before referred to. From a report made to the Coast Survey office by the agent of the underwriters of our Atlantic and other seaports, it appears that, from the year 1845 to November 1, 1852, the number of American vessels wrecked on the Florida reefs, keys, and coast, and brought into Key West, was 252; and the aggregate value of the ships and cargoes was \$7,932,000. The salvors were awarded on this property \$798,317, or about ten per cent. average salvage; and the expenses incurred were \$389,380—about five per cent. more: amounting in all to \$1,187,697, or about fifteen per cent. loss to the owners or insurers. In this statement, the foreign vessels and cargoes wrecked there, are not included. It is estimated they equal at least one-fifth of our own in number and value. Those vessels that were supposed to be entirely lost, and the crews of which probably perished, are not estimated in the statement.

system for the regulation of the business of assisting wrecked vessels, and for securing the fidelity, honesty, and vigilance of the "salvors," now enforced by the admiralty court at Key West, under authority of

acts of Congress, is judicious and salutary.

The extended introduction and use in navigation of steam power, defying the currents and the storms; the acquisition of more accurate knowledge of the reefs, and keys, and coasts, and currents, and the course of the winds; and the improved skill and greater care on the part of navigators, and the erection of further necessary light-houses, beacons, buoys, &c.—it is hoped, may decrease the number of wrecks on those reefs and coasts, and the immense losses sustained thereby, chiefly by eastern merchants, or ship-owners, or insurance offices; but there will always be many unavoidable casualties attendant upon that navigation. The subject of devising further means, looking to the prevention of shipwrecks and consequent loss of human life and destruction of property on the reefs in the vicinity of Key West, commends itself to the consideration of every philanthropic statesman. Provision for the destitute mariner cast upon those islands or coasts by shipwreck is also a subject meriting attention.

There is no navy or ship-yard at Key West. There are no public establishments for the repair or refitting of ships injured in battle or by storm, or by having been ashore, nearer than Pensacola, on the gulf side, and Norfolk, in Virginia, on the Atlantic side. There is no naval hospital at Key West. There are no naval or military magazines or storehouses. There are no supplies of naval or military armaments or munitions of war. There are no public supplies of provisions; no coal for steamers, or other naval or military stores of any kind, or places to deposite them in, if taken there. There are no materials for the repair or refitting of vessels. There are no public workshops, or artisans, implements, or tools, or machinery, or tackle, for such object. And the case is the same at Tortugas. The nearest government establishments are at Pensacola, six hundred miles across the gulf, and Norfolk, nine

hundred miles up the Atlantic coast.

Every dictate of prudent foresight demands a change in these respects. At the present session of Congress, an appropriation of twenty thousand dollars is made "for establishing a depot for coal, for naval purposes, at Key West." No appropriation allowing further progress in the fortifications at Key West or Tortugas has, however, been made. It is believed, sound economy dictates that such amounts should be given as would enable them to be completed, and the armaments

and military stores supplied to them forthwith.

Key West will hereafter be more looked to as a rendezvous for our merchant-ships passing near to it. The great utility of a public ship-yard and dock there, must be apparent to all who reflect on the subject. That port should be relied upon as a certain depot for coal and provisions and stores of all kinds, but especially for ship-chandlery and materials for repairing and refitting our ships-of-war and merchant-vessels, injured in any way, if they should put in there, or be taken in by "salvors." The establishment there of a naval hospital would be a just and a judicious measure. If made a stopping-place for the United States mail steamers between Chagres

and New York and New Orleans, and all others going to, or returning from the South, the advantage thereby afforded of shipping wrecked goods by the large steamers directly to New York or to New Orleans would be important to the insurers and others interested. The adoption of the measures suggested could not but result beneficially to the country in every respect. To wait till circumstances of necessity force such results-till private interests are constrained or induced to build up private establishments, and provide the means for making Key West a rendezvous and haven and depot, as suggested—is, it is conceived, short-sighted policy. Public and general interests are involved, and public governmental aid should be yielded. Key West will become more and more essential as a place of depot for American coal as the steam navy and steam mercantile marine increases. If Tehuantepec should be made a good route of transit or of passage to the Pacific, Key West, being in the direct pathway of steamers from thence to the Atlantic ports and to Europe, and about midway of the voyage to and from New York, will be absolutely indispensable to the steamers in that business as such depot.

Cogent arguments are urged in favor of Key West being made a principal naval station, and for establishing a navy-yard there of the first class. Besides those arising from its peculiar advantages of position, before alluded to, in time of war and of peace, the facility of procuring all kinds of naval timber cheaply, and also of tar, pitch, and turpentine, from the contiguous public domain on the peninsula, is a matter deserving consideration. At any rate, it should be made an auxiliary yard for the repair and refitting of vessels-of-war injured in battle or by storm, even if it should be deemed injudicious to construct or build ships there. Large sums have heretofore been expended at Port Mahon, and elsewhere in foreign ports, by the United States, for similar limited public establishments. If provision is made by law, allowing, on proper terms, the use of such works for the repair and refitting of wrecked merchant-vessels, it would be highly advantageous to the commercial and navigating interests of the Atlantic seaboard.

The superior eligibility of Key West as a naval station and depot, and the sound policy of fortifying it strongly, have long since been urged upon the government by officers of the army and navy at the head of their profession. President Monroe's message, January 20, 1823, and Secretary Thompson's communication referring to Commodore M. C. Perry's report, Am. Sta. Pa., tit. Naval Affairs, p. 871; also Commodore Rodgers's report, November 24, 1823, ibid., p. 1121; also President Jackson's executive order, April, 1829, and Secretary Branch's report in 1829, Sen. Doc., 1st sess. 21st Cong., vol. 1, No. 1, p. 37; and Commodore Rodgers's report, ibid., p. 236; also President Jackson's message, March, 1830, and Secretary Branch's letter and Captain Tatnall's report, Sen. Doc., 1st sess. 21st Cong., vol. 2, No. 3, pp. 1, 2, and 5; also Secretary Conrad's report, December, 1851, Ex. Doc. No. 5, p. 9, 1st sess. 32d Cong.; and Gen. Totten's report, ibid., pp. 25-52; and Lieutenant Maury's report, ibid., pp. 116 and 179 to 184; and Lieutenant Maury's essays in Southern Literary Messenger of May, 1840, pp. 310, 311, &c.; and numerous similar papers to be found in the published documents of Congress since 1821,—show this. The late Commodore David Porter, at different times, officially and unofficially, in communications published in the newspapers, expressed his unequivocal concurrence with Commodore Rodgers in the opinion he gave of the great importance of Key West and Tortugas, and of the policy and measures that should be adopted with respect to those points. And when Commodore Porter was in the service of the republic of Mexico in her struggle for independence with Spain, he used Key West, then first being settled, as a point of rendezvous, from which he was enabled to well nigh destroy the commerce of the Havana and Mantanzas, though sought to be protected by a superior Spanish fleet under Admiral Laborde.

In the celebrated report to Congress, April 8, 1836, (Ex. Docs., rol. 6, No. 243, 1st sess. 24th Cong.,) made by General Cass, then Secretary of War under General Jackson, and which, it has been considered, embodies all the arguments against the general system of coast fortifications as an economical or as the best means of defence for this country, positions like Key West and Tortugas are excepted from the general objections to the system, insomuch as they are not within the class of ordinary coast fortifications on the main land. They are rather auxiliary

naval works. Ibid., pp. 11, 15, &c.

The opinions expressed as to the value of Key West and Tortugas to the United States, in the documents and papers above referred to, are by no means peculiar to the eminent men and officers who thus expressed them, nor are they, in the least degree, novel. Similar views, it is well known, were entertained and expressed, by British engineers and other British naval and military officers, to that government a long time ago. Great Britain took the Havana and the provinces of East and West Florida from Spain, in the war of 1762-'63. On the restoration of peace in February, 1763, she relinquished the Havana and Cuba, but retained the Floridas, which remained in her possession till 1783, when they were retroceded to Spain. Whilst in possession of them, the British government caused partial surveys to be made of the reefs, keys, and coasts; and the reports of her officers represented the Tortugas, and other islands and keys adjacent to the coast, as commanding, if fortified and aided by a small naval force, the trade of the Havana, of Mantazas, and of the entire gulf and straits of Florida. Excepting the Floridas, the whole gulf coast (Louisiana and the vice-royulty of Mexico) was at that time possessed by Spain. The British officers represented truly, that the Tortugas and the other Florida keys were of more importance to Great Britain, in a naval and military point of view, than the Havana; because, whilst they are a check upon it, and, as has been before mentioned, they could effectually blockade it, aided by an efficient naval force, the Havana has no countervailing check or control over them with such naval force to sustain them. is true, objections have been preferred to these views. It has been asserted that Key West and Tortugas are "unhealthy." The census reports of 1850, as to the number of deaths there, and the official reports of army and navy, medical, and other officers, and the experience of the residents of the Florida keys for the last twenty years, disprove this assertion. It has been stated that the isolated position of these two points renders the construction and maintenance of public works there more expensive than at other places. This is not correct to any

very great extent, and it is not a good reason for withholding the means if the advantages are superior, or the necessities greater, for such works there than at other places. Besides, these two works will cost for the construction less than the aggregate of the cost of four frigates, (if estimated at only \$600,000 each;) and it must be remembered that our naval ships ordinarily require in eight years the amount of their prime

cost for repairs, refitting, &c. The objection has also been urged that, if such forts were besieged. there would be difficulty in affording them subsistence or other succor. It is not easy to imagine the probable necessity of such succor, except produced by a course of flagrant negligence and want of precaution, with respect to them, that it is not likely would be pursued by our government in time of war, nor by our army or navy officers. denied, if such were the case, aid could not be rendered from the adjacent coasts, especially if some of the keys (such as Bahia Honda and Key Vacas) nearer the capes are protected by small defences, as should be, and can be done, at trifling expense; and if it can be supposed that there was no naval force of the United States on the gulf competent to repel the enemy. The assertion has been made in crude essays in political newspapers, and it has been elsewhere re-echoed, that Cuba, the Havana, and the Moro Castle, are "the true and only keys to the defence" of the shores of the South, "and to the immense interests there collected," and that Key West and Tortugas were not the controlling positions stated in the documents referred to. It is believed that but a solitary instance exists where such opinion has been acquiesced in by any distinguished naval or military officer.

Such peculiar opinion, with respect to the relative value of these positions, and of Cuba, and of the Havana, and of the Moro castle, is unsupported by any sound reasons founded on undisputed facts, and it has generally been urged to sustain ulterior views of policy beyond the mere protection of our commerce. The idea of the Havana being regarded as a key to the gulf, when Key West and Tortugas are fortified and supported by a small naval force, is preposterous. They are to windward of Cuba, and are located at the centre, while the Havana is outside the periphery of the circle of the commerce of the gulf and straits; and they have different channels of ingress and egress to the gulf and the straits, while the Havana has but one, and that to the straits. Vessels bound to or from the gulf, or further south, do not ordinarily pass as near to the Havana as to the Florida keys. They seek to avoid the iron-bound and generally leeward coast of Cuba, and

the currents near it.

As points from which to make an offensive or aggressive demonstration by sea, either in the West Indies or to the south, or in the Atlantic beyond the Caribbean sea, as has before been observed, Key West and Tortugas are the most favorable positions in possession of the United States. Foreign statesmen and military and naval officers are not unapprized of this; and hence, upon the breaking out of a war between us and any naval power of Europe, a large naval force will be forthwith despatched by the enemy to their vicinity, and, as was predicted by Commodore Rodgers in 1823, "the first important naval contest in which this country shall be engaged, will be in the neighborhood of this very island," [Key West.]

In confirmation of the correctness of those remarks, it is not inappropriate to refer to debates in the British Parliament more than thirty-three years ago, in which eminent and sagacious British statesmen, who doubtless received the views they expressed from British military and naval officers, (as is the practice of wise British statesmen on such subjects,) unequivocally attest the value to the United States of these positions, obtained by the then recent cessions of the Floridas by Spain. [Vide Lord Lansdowne's speech, in May, 1819, Hans. Parl. Deb., vol. 40, p. 291; Mr. Macdonald's speech, June 3, 1819, ibid., p. 902; Mr. Maryatt's, ibid., p. 893; Sir Robert Wilson's, ibid., p. 871; Lord Carnarvon's, ibid., p. 1413; and Lord George Bentinck's, February 3, 1848, ibid., vol. 96, pp. 7 to 42.]

This is not the only time similar views were expressed in the British Parliament; and it has been stated on good authority, that, anterior to the cession of 1819, an eminent, watchful, and far-seeing English statesman called public attention to the importance of the *Tortugas*, and to the expediency of the British government taking possession of and for-

tifying those islands.

One of the most useful public undertakings in the Union is the "Coast Survey." Its labors on the Florida reef, keys, and coasts were commenced in 1848, and are extending up the gulf and Atlantic coasts. Appended to a statement of wrecks at Key West in 1847, (published p. 105, Sen. Doc. No. 242, 1st sess. 20th Cong.,) is the following printed note, made by one of the then Senators from Florida:

[Note by J. D. W. IN 1848.]—"It is not a little surprising that, in the twenty-seven years Florida has been held by the United States, no complete nautical survey has been made of the 'Florida reef.' During such time the British government has had ships-of-war, (among them the brig Bustard,) with scientific officers, engaged for months in such surveys; and even in surveying the harbor of Key West, and other of our harbors there! The charts used by our navigators are the old Spanish charts, and those made by the British from 1763 to 1784, and of the recent British surveys alluded to, and compilations of them by Blunt and others—all imperfect in many particulars, and erroneous in We have no original American chart of all the reefs and keys! That accomplished and scientific officer at the head of the 'Coast Survey,' Professor Bache, has informed me, that if the means were appropriated by Congress, the entire reef and all the keys, from the Tortugas up to Cape Sable, could be surveyed in one season. The expense, to enable the work to be finished in one season, might not fall short of \$100,000; as, to effect it, three or four different parties of officers must be employed. But the benefits of such work would greatly outweigh this amount; and it will not cost less, to devote two or three years to it."

No intelligent man, after investigation and reflection, can question the great value of the "coast surveys." They have been prosecuted with diligence on this coast, as the results show, since the first appropriation of \$7,500 was made in 1848. The annexed map, showing the coast of the Gulf of Mexico, and also the relative positions of Cape Catoche and of Cuba, and of the Bahama banks and islands, to the peninsula, and to the islands, keys, and reefs of Florida, and also of

the Atlantic coast as far north as Charleston, has been furnished from the "Coast Survey" office, upon request, expressly for this report. It will be found to be highly useful. Some portions of the coasts therein delineated have not as yet been fully surveyed, though the work, as it respects the coasts of the United States, is progressing as rapidly as the limited means yielded will allow. The parts unsurveyed have been laid down from the former surveys alluded to, and from the partial, or preliminary, reconnaissances made by the Coast Survey officers. The beneficial effects of the labors of this valuable public establishment (characterized as those labors are by that perfect accuracy attainable only by the highest degree of science and professional skill) should be conceded by all, though it seems such is not the case. It is to be lamented, as a drawback to these and all similar works for the prevention of casualties of any kind, and particularly those by shipwreck, that they are not generally appreciated. Their salutary results are silently effected, and therefore unperceived by many. Even the merchant, whose property is saved from destruction by the charts of hidden dangers, and of safe channels and harbors, furnished by the "Coast Survey," reflects but little to whom he owes its preservation. But the tempest-tossed mariner, when his ship and his life are in peril, from which there is no escape except by the aid these charts give him, then feels their inestimable value, and cherishes the guide there found as his best friend.

WRECKS.

The following statement has been compiled from Sen. Doc. No. 242, 1st session 30th Congress, pp. 25, 26, and *ibid.*, pp. 99 to 105; also Sen. Doc. No. 3, 2d session 30th Congress, 1848, pp. 30, 31, &c.; also Sen. Doc. No. 42, 1st session 32d Congress, 1851–752, p. 11; and other documents referred to in the foregoing paper, and in Mr. Cabell's letter, which precedes it. See also Mr. Hoyt's (agent) report to "Board of Underwriters" in New York, for 1852:

Wrecks on Florida reefs from 1844 to December 15, 1852.

Year. Number of vessels.		Value of wes-	Salvage. Expenses.		Salvage.		Salvage and	Loss.
	sels and car- goes.	Per ct.	Amount.	Per ct.	Amount.	expenses.	Per ct.	
45	29	\$725,000	12.7	\$92,694	10.5	\$76,370	\$169,064	23.
46	25 37	731,000 1,624,000	9.4 6.7	69,600 109,000	6.4	36,100 104,500	105,700 213,500	14.3 13.3
48	41	1,282,000	11.1	125,800	9.2	74,260	200,060	21.
49		1,305,000 922,000	11.2	127, 810 122, 831	8.5 8.3	91,350 77,169	219,160 200,000	18. 21.
50		941,500	12.1	75, 852	8.4	89, 148	165,000	20.
52	22	663, 800	8.2	80,112	8.2	81,988	162,100	16.
Total	265	8, 194, 300	10	803,699	12.9	630,885	1,434,584	22.

The foreign vessels are not included in the above, except in the three first years, when there were 17 British, and 84 American, and 6 of other nations. Foreign vessels included, since 1847 the number of wrecks is altogether about 290 vessels. The expenses are distinct from salvage, being charges against vessels, &c., in port, as harbor fees, wharfage, storage, auction commissions, exchange, commissions for advances, support of crews, repairs, refitting, &c.

THE COTTON CROP OF THE UNITED STATES.

This paper is not intended to be an essay upon the questions respecting which much has been written as to the time when, and by what people, "cotton-woo!" was first used for making cloth; or when, or by whom, it was first cultivated for use; or when, and with what nations, it first became an article of commerce. Several different and various publications, official and unofficial, readily attainable in most parts of this country, each, afford all the information on these points that can, in any degree, be practically useful to any person. Nor is it intended to discuss in this paper, or even to intimate an opinion respecting those topics of political economy connected with the different "cotton interests," which have divided public sentiment in this country in years past. The sole object is to present data, gathered and compiled from authentic sources, relating to the cultivation and production of cotton—its past increase in the United States as an article of commerce, and its probable still greater importance and value.

Two kinds of cotton are grown in the United States.

1. That indifferently called "long staple," "black seed," "lowland," or "sea-island." When raised inland, it is sometimes called "Mains."

2. The "short staple," "green seed," "upland," also sometimes

called "petit gulf," or "Mexican."

The first generally commands twice or thrice the price of the latter kind, and superior sea-island often brings a much higher amount. Very choice qualities of sea-island cotton have commanded upwards of a dollar per pound. Sea-island cotton is prepared for market with great care, being mostly cleaned by hand, or by the "roller" gin; the "saw" gin, used to separate the wool of the "short staple" from its seed, injuring the fibre of the "long staple." The long staple is usually put in round bags, not exceeding 350 pounds in weight, whilst the short staple is, in late years, compressed into square bales of generally 450 or 500 pounds each, and in some States more. The annual yield of the long staple is generally from 75 to 150 pounds of cleaned cotton to each acre of average good land cultivated, or from one to one and a half and two bags of 300 pounds to each able plantation hand employed; whilst the short staple yields from 150 to 250 pounds of cleaned cotton to the acre, or from three to seven bales of 400 pounds to each hand. In the best seasons, upon land of the first quality, and with good cultivation, eight, nine, and sometimes ten bales of upland cotton, to the hand, have been produced. The hands employed in the cultivation of cotton, and the product of whose labor is thus estimated, are estimated as if not engaged in the cultivation of corn, potatoes, and other products, &c., for the support of the plantation.

The regions in the United States adapted to the profitable raising of sea-island cotton are not so extensive as those in which the short staple can be advantageously cultivated, and the crop of sea-island has consequently not increased in the same proportion as the short staple. And the demand for sea-island is not so great, as it is chiefly used for the manufacture of laces, fine cotton threads, and cotton cambrics of the most delicate texture. It is now also used with silk in the manufacture of several articles passed off as silk goods. No country has produced

any cotton equal in fineness, length, and strength of fibre, and of such whiteness, as the sea-island of South Carolina, Georgia, and Florida. This superiority is doubtless, in a degree, owing to the peculiar adaptation of the climate and soil of parts of those States to the favorable production of that kind of cotton; but it is also attributable to the great attention given to its cultivation by intelligent and observing planters, availing themselves of the aids of chemical and agricultural science—making experiments from year to year for improving the processes of cultivation, and for increasing the excellence as well as the quantity of the product; and who profit by the practical experience of their antecessors of more than half a century.

The treasury accounts exhibit the progress of the "sea-island" cotton crop of this country from 1805 to 1852 inclusive, fuller than they do the progress of the crop of "upland" cotton, for the reason that the former has been mostly exported, whilst a large portion of the latter has always been consumed in the United States. Prior to 1805, no distinction was made in the treasury reports between the "sea-island" and "other cotton," styled, in a treasury report of 1836, "common

cotton."

The treasury accounts show, that during the years 1790, '91, and '92, about 733,044 pounds of cotton of all kinds, foreign and domestic, valued at \$137,737, were exported from the United States. There had been imported into the United States previously, and during that period, foreign cotton to a considerable amount. The importations within the years named were about 889,111 pounds, which, valued at the same price as that exported, amounted to \$202,014. The importations of foreign raw cotton during those three years exceed the exportations 156,067 pounds; and, consequently, either the whole of the domestic crops, and likewise that much of the foreign (and imported) raw cotton, was then consumed in the United States; or a portion of the domestic crops was exported, and a greater amount than is above stated of the foreign raw cotton was consumed in the United States. The quantity of foreign raw cotton consumed in the United States in these three years is, however, estimated in a treasury report of 1801 at 270,720 pounds, which would make the exportation of domestic cotton in those years 114,653 pounds. It is known that some, though limited quantities of domestic raw cotton were sent to Great Britain in the years specified; but the correct accounts thereof cannot now be obtained, and therefore, with this explanation, it has been deemed proper to state all the exportations for those years as foreign cotton, as in fact most of them were.

The only accounts of the entire annual crops of the United States that can be obtained are unofficial, except the decennial census statements. The "commercial" accounts are usually stated as from the first of September of each year, to the 31st of August following; it being presumed that, by the day last mentioned, the entire crop of the previous year will have been received in the home market; and the amount of such receipts, consequently, affords tolerably correct data for estimating the "entire crop" of that year. The official or treasury accounts, ending each year on the 30th day of June, (the last day of the fiscal year of the federal government,) and before the entire crop of the previous

year has been received in market, the crops of the two preceding seasons are often confounded. Nevertheless, by comparison of the different accounts with each other, estimates may be made of the crop of each season, closely approximating to general correctness.

The exports of "sea-island" cotton from the United States, within

certain periods, have been as follows:

In 1805, '6, and 7	23,809,752	pounds.
In 1808 (embargo)	949,051	66
In 1809, '10, and '11	25,297,867	46
In 1812, '13, and '14 (war)	11,022,993	46
ln 1815	8,449,951	66
In 1821, '22, and '23	34,731,389	66
In 1849, '50, and '51	28,505,378	"
In 1852	1,738,075	66

The annual exports of "sea-island" cotton for the last nineteen years, excepting the years 1845, '46, '49, and '52, were less in quantity than the exports of the same kind in 1805. The fluctuations in the prices of "sea-island" cotton have not been so great as in those of "other cotton." The "embargo," laid December 22, 1807, and which continued in force till March 1, 1809, affected the crops of 1808 and 1809, as to quantity produced, and prices; and the war with Great Britain (declared in June, 1812, peace being fully restored in January, 1815,) injuriously affected the production and prices of all cotton for the years 1812, '13, and '14. The annual consumption in the United States of raw "sea-island" cotton, it is estimated, is not now more than one-hundredth of the amount exported, being in 1852 estimated to be about 100,000 pounds. Though the treasury accounts from 1805 to 1820 distinguish in the tables of exports between domestic and foreign cotton exported, and the quantities and values of the different kinds of cotton, and that exported in foreign and that in domestic vessels; since 1820 the separate values of "sea-island" and of "other cotton" are not stated in the published reports. It appears that for many years Great Britain has generally received nearly four-fifths, and France about onefifth, in quantity, of the "sea-island" cotton exported.

It has been stated that a process of dividing, or splitting, the coarser "upland" cotton, and of substituting the divided fibre for the fine "sea-island," in the manufacture of the finer muslins, has recently been discovered in Europe; and which, it has been conjectured by some, may cause a diminution of the value of "sea-island" cotton. The account is not fully credited; but if the fact be as stated, it is considered that the expense and labor of dividing the coarser cotton must exceed the additional cost of the production and preparation of the "sea-island" for market, to that of the "upland;" and more than the ordinary difference between the prices of the different kinds. And it is also believed that articles manufactured from cotton naturally fine, must excel in appearance, strength, and durability, any made from cotton the fineness of which is produced by artificial means, like those intimated; and that for a long time to come, markets equally as certain and as profitable as now exist for all the "sea-island" cotton that can be

raised in the United States, (as before observed, necessarily limited in

quantity,) may be certainly depended upon.

A comparison of the exportations of "sea-island" cotton with those of "all other" domestic raw cotton will show that, whilst in 1805, '6, and '7 the former amounted to 23,809,752 pounds, the quantity of the latter exported during the same period was 114,182,256 pounds; the proportion of "sea-island" to "all other" being less than a fourth, and to the entire exportation less than a fifth in quantity. In 1821, '22, and '23 the proportion of "sea-island" to the entire exportation was less than a twelfth in quantity; and in 1849, '50, and '51 that proportion was less than a ninetieth! In the year 1852, the "sea-island" exported was 11,738,075 pounds, and the proportion to the entire exportation of 1,093,230,639 pounds was less than one ninety-third.

The "upland" cotton crop of the United States has increased since 1790, with a rapidity unexampled, in history, by any product of agriculture, in any country. Its augmentation in respect of quantity, as well for home manufacture and consumption as for home manufacture for exportation, and as an article of foreign commerce in its "raw" state, and likewise the increase of its importance and value as an article of commerce after its manufacture in foreign countries, are also unparalleled. The consequence it has attained as an article of necessity, in affording the means of employment to the manufacturing classes of Europe (and especially of Great Britain) and of this country, is also

without precedent.

The exportations of domestic upland cotton anterior to 1805, separately from "sea-island," cannot be given for the reasons before stated.

The exportation of "sea-island" in certain periods is stated above.

The exportation of "sea-island" in certain periods is stated above. The exports of "other cotton," or "upland," and likewise the "total exports" of all domestic raw cotton, in the same periods, were as follows:

Exports of raw cotton from the United States.

Years.	Domestic "upland" cotton.	Total domestic cotton of all kinds.	Official valuation.
In 1805, '6, and '7	Pounds. 114,182,256	Pounds. 137,992,011	\$32,004,005
In 1808	9,681,394	10,630,445	2,220,984
In 1809, '10, and '11.		206,309,953	33,274,408
In 1812, '13, and '14.	54,703,407	65,726,400	8,087,628
In 1815	74,548,796	82,998,747	17,529,244
In 1821, '22, and '23.	408,560,381	443,291,770	64,638,062
In 1849, '50, and '51.	2,560,715,584	2,589,220,962	250,696,900
In 1852	1,081,492,564	1,093,230,639	87,965,732

The official returns show that the increase of the aggregate of the exportations of all kinds of domestic raw cotton, since it has become

a prominent article of foreign commerce, (except whilst the embargo of 1808, and the war of 1812, 1813, and 1814, affected our foreign trade, or when adventitious and unfavorable circumstances shortened the crop,) has been unchecked and regular. That increase, since 1805, has been upwards of twenty-eight fold in quantity, and more than nine hundred per centum in value, and the steadiness of the augmentation will be manifest by taking the aggregate of each successive three years after 1804, down to and including 1852, omitting only the years when all the commerce of the United States was shackled and reduced, as above noticed.

The importations of foreign raw cotton into, and the exportations of foreign raw cotton out of, the United States, (the difference being consumed in the United States) are stated below for certain years, as taken from the treasury returns:

Years.	Imports of cott			foreign raw ton.	Differe	nce.
	Pounds.	Dollars.	Pounds.	Dollars.	Pounds.	Dollars.
In 1805, '6, & '7 In 1821, '22, & '23. In 1849, '50, & '51. In 1852	7, 881, 415 1, 256, 614 584, 127 244, 548	1,831,327 229,020 29,622 12,521	6, 494, 439 1, 093, 362 184, 034	1, 506, 610 203, 327 11, 340	1, 386, 976 163, 243 400, 093 244, 548	324, 719 25, 732 18, 682 12, 521

The quantities and values for every year have not all been found in the treasury returns; but the one may generally be estimated from the other, and from the prices of domestic cotton the same year. It appears that the price of some foreign cotton was formerly very high; but the average of medium "upland" domestic cotton is now too great for the foreign cotton imported. As before observed, the entire exports of 1790, '91, and '92, are set down as foreign raw cotton; insomuch as they were less than the imports of same cotton in same years. The total amount of the crops of the United States in those three years has been variously estimated; but the accounts of the imports and exports of foreign raw cotton, (before stated with explanations,) show that the cotton then produced in the United States was not sufficient for the domestic consumption in those three years!

Our importations have swelled in the aggregate from about \$388,-000,000, in 1805, '6, and '7, to \$542,220,689 in 1849, '50, and '51. In the year ending June 30, 1852, they amounted to \$212,613,282. In considering this increase, it should be recollected that this statement does not show the increased consumption in the United States of the foreign articles, which in some instances is greater than appears by

such account.

In former years a large portion of these importations was destined for exportation from the United States to foreign countries, and was not consumed here. We received the freights upon such of them as were carried in our ships, in or out; and import duties, less the drawback on exportation, and the incidental expenses of storage, &c. This "car-

rying" trade has decreased more in proportion than any other. The following account of such aggregate importations and exportations of all foreign merchandise, and likewise the next following account as to foreign cotton manufactures imported and exported in different periods, will illustrate these remarks. The difference is the true amount of such importation consumed in the United States. The accounts, or general tables, annually published by the treasury, do not direct attention to past changes in the course and character of our trade, commerce, and navigation; and therefore its true decrease or increase, and its actual retrogression or progress, in every respect, is not manifest without close investigation of several different tables.

The value of importations and exportations of foreign merchandise, and "difference," (being the amount consumed in the United States,) in

certain periods, were as follows:

Years.	Imports.	Exports.	Difference, consumed in U.S.
1790, '91, and '92 1793, '94, and '95 1796, '97, and '98 1799, 1800, and '1 1802, '3, and '4 1805, '6, and '7 1808 (embargo) 1809, '10, and '11 1812, '13, and '14 (war) 1815, '16, and '17 1818, '19, and '20 1821, '22, and '23 1824, '25, and '26 1827, '28, and '29 1830, '31, and '32	\$83, 700, 000 135, 456, 268 225, 367, 270 281, 685, 427 225, 999, 999 388, 510, 300 198, 200, 300 112, 000, 000 359, 394, 274 283, 325, 300 223, 406, 502 261, 863, 559 242, 486, 419 275, 097, 310	\$2, 804, 295 17, 125, 277 86, 300, 000 131, 296, 598 85, 600, 640 173, 105, 813 12, 997, 414 61, 211, 616 11, 488, 141 43, 079, 975 56, 600, 408 71, 132, 312 82, 467, 412 61, 656, 631 58, 460, 478	\$80, 895, 705 118, 330, 991 139, 067, 270 150, 388, 829 140, 399, 359 215, 404, 187 43, 992, 586 136, 988, 384 100, 511, 859 316, 314, 299 226, 724, 592 152, 274, 190 179, 396, 147 180, 829, 788 216, 636, 832
1833, '34, and '35 1836, '37, and '38 1839, '40, and '41 1842, '43, and '44 1845, '46, and '47 1848, '49, and '50 1851	384, 535, 385 444, 686, 656 397, 179, 828 273, 350, 921 385, 491, 999 480, 994, 685 216, 224, 932 212, 613, 282	63, 640, 041 56, 054, 117 51, 153, 918 29, 759, 102 34, 704, 611 49, 172, 988 21, 698, 293 12, 037, 043	320, 895, 344 388, 632, 539 346, 925, 910 243, 591, 819 350, 787, 388 431, 821, 697 194, 526, 639 200, 576, 239

The "bullion and specie" imported and exported, are included in the above. It corrects some errors (though trivial) in former tables, pp. 288 and 701.

The value of importations and exportations of foreign manufactures of cotton and "difference," being the amount consumed in the United

States, in certain periods, was as follows:

Foreign cotton goods imported and exported, &c.

Years.	Imports.	Exports.	Difference, consumed in U. S.
1821, '22, and '23	- 29, 753, 307 - 28, 674, 440 - 34, 352, 203 - 33, 173, 215 - 35, 626, 258 - 33, 169, 701 - 26, 178, 789 - 42, 586, 782 - 54, 228, 149 - 22, 164, 442	\$5, 863, 132 7, 112, 522 5, 646, 493 7, 540, 409 9, 669, 209 6, 602, 600 3, 287, 810 1, 550, 156 1, 661, 891 2, 214, 361 677, 940 991, 784	

A reference to the more detailed statement appended will show that. for some years past, most of the above specified importations have been of the finer kinds of manufactures, made chiefly from the "seaisland" cotton, or the best qualities of "upland." Our domestic manufactures, though improved greatly as to quantity, have hitherto been mostly of the medium, or of the coarser or lower-priced goods, made from ordinary "upland" cotton, manufactured with less labor, and more cheaply than the finer goods. A reference to the following compiled account, and to the more detailed table appended, of our domestic cotton manufactures, exported since 1826, will verify this statement, as to the quality thereof. A comparison of these statements with those of our exportations of raw cotton will show that, whilst our exports from cotton have, since 1821, increased nine-fold, the importations of our foreign cotton manufactures have but a little more than doubled. Our exportations of domestic cotton manufactures have nearly destroyed the exportations of foreign cotton manufactures, and taken the place of them.

The treasury returns of exports show to what countries the foreign cotton manufactures, and also to what countries the domestic cotton manufactures, were sent from the United States; and an investigation as to the facts, in this respect, would be interesting and useful to the merchants and statesmen of this country; but the limits to which this paper is restricted precludes, at this time, anything on this subject but

the suggestion now made.

Exportations of domestic cotton manufactures in certain years and periods.

Years.	Value.
In 1826 In 1827, '28, and '29 In 1830, '31, and '32 In 1833, '34, and '35 In 1836, '37, and '38 In 1839, '40, and '41 In 1842, '43, and '44 In 1845, '46, and '47 In 1848, '49, and '50 In 1851 In 1852	3,429,103 3,674,070 7,477,192 8,845,962 9,647,186 9,093,110 11,955,932 15,385,758 7,241,205

Though the quantity of foreign "raw" cotton consumed in the United States is readily ascertainable by deducting the exportations of such cotton from the importations; and though the value of the foreign manufactures consumed may be ascertained by a similar process, and a tolerably correct estimate made of the quantity of raw cotton, (of the United States,) used in such manufactures; yet it is well nigh impossible to ascertain with certainty the quantity of domestic raw cotton consumed in this country.

In the *first* place, the quantity consumed in "household" or "home-made" manufactures of many different kinds, and that which is consumed in the infinite various uses to which it is applied throughout the country, and especially in the States where it is grown, has to be guessed, without very certain data. So also the quantity destroyed by fire, or otherwise, in its transportation to the southern shipping port, or by sea, before it is taken into the account, cannot be ascertained. The rates of insurance from the Gulf to the Atlantic ports are very high, and should be some criteria by which to judge of the extent of these losses.

The last census returns state the value of all the "home-made" manufactures in the United States to be \$27,544,679. Of these, the States of North Carolina, South Carolina, Georgia, Florida, Alabama, Tennessee, Arkansas, Mississippi, Louisiana, Texas, and Kentucky, made upwards of \$14,635,000; being more than half, though the aggregate of their white population is less than a fourth of the whole white population of the United States. In those States, cotton is a principal material in such manufactures; and they are made by every class, and used by every class of the population. It is not considered extravagant to allow for the raw cotton used in "home-made" or "household" manufactures in the United States, including that applied to other uses, \$7,500,000, equalling, at 11.31 cents per pound, 66,372,000 pounds, or 165,930 bales of 400 pounds each.

And it is estimated that 7,500 bales of 400 lbs. each, or 3,000,000

of pounds, are annually lost or destroyed, and not put into the account of the crop, as above stated. It is valued at \$339,000.

The second item is the amount furnished the domestic manufactories of cotton in the United States, to ascertain which, even approximately, recourse must be had to unofficial statements of manufacturers, and to commercial accounts, that cannot be otherwise than imperfect; and to the more authentic, but still somewhat uncertain accounts, taken from the last census returns. The census returns of 1849–'50 of the cotton manufactories in the United States give the following statement:

Number of manufactories in the United States	,094
Amount of capital invested\$74,501	,031
Bales of cotton used—(at 400 lbs. each, equal to 256,496,-	
000; at 450 lbs. each, equal to 288,558,000) 641	,240
Tons of coal used	,099
Value of all raw material used\$34,835	,056
Number of hands employed—(males, 33,150; females,	
59,136)	,286
Entire wages per month—(males, \$653,778; females,	
\$703,414) \$1,357	,192
Value of entire products\$61,869	,184

The quantity of cotton used is stated in bales. A bale is estimated in another part of the census accounts to weigh 400 lbs. It is believed such estimate, as to the cotton furnished our manufacturing establishments, is underrated at least 12½ per centum. Most of the cotton used in those manufactories is "upland," the bales generally, for the last five years, averaging 450 pounds. That the other census accounts relating to the "entire crop," (including "sea-island" and "upland,") though stated in pounds, mention the bales as "of 400 lbs. each," does not make the above reduction of these bales to pounds, at 450 lbs. to each bale, incorrect. The estimate of 400 lbs. is carried through all the statements and estimates in this paper, (except in the above,) to enable

ready comparisons to be made.

The "products" of these establishments are stated to have been, in 1849-50, 763,678,407 yards of sheeting, and 27,860,340 lbs. of thread, yarn, &c., and 13,260 bales of batting, and are valued at \$61,869,184. The value of domestic woollen manufactures is stated at \$43,207,555; that of domestic iron manufactures, of all kinds, at \$54,600,000. The value of 1,177,924 barrels of ale, beer, &c., or of the 42,133,955 gallons of whiskey and "high wines," or of 6,500,500 gallons of rum, manufactured, is not stated. The annual wages of the hands employed in cotton manufactories, it will be seen by the census returns, amount to \$16,286,304. The woollen manufactories employ 22,678 male, and 16,574 female hands—in all 39,252—whose annual wages amount to \$8,399,280. The iron manufactories employ 57,017 male, and 277 female hands—in all 57,294—whose annual wages amount to \$15,000,000; and breweries and distilleries employ 5,487 hands, the value of whose labor is not given!

Deduct from the value of the "products" of these cotton manufactories in 1849-'50, stated to be \$61,869,184, the value of the exports of domestic cotton manufactures for the same year, \$4,734,424, and the balance,

\$57,134,760. is the value of the domestic cotton manufactures, made in our own cotton-manufacturing establishments, and consumed in the United States.

The value (and afterwards the quantity) of raw cotton for these respective portions of the domestic cotton manufactures of the United States, may be ascertained by a deduction of 50 per centum of the value of the manufactures, for the cost of manufacture, wastage, profits, &c., and calculating the quantity corresponding to such value, at the price for that year, of fair "upland" cotton. The correctness of this mode will be verified, as to the year 1849-50, by reference to the items in the census account of the manufactures of cotton above given, of the value of raw materials used, and "bales of cotton" used, and "value of entire products," and to the expenses of manufacture, as set forth in that statement.

The quantity of domestic raw cotton consumed in the United States, in foreign manufactures, has been estimated by a similar calculation with reference to the "difference" between the importations into, and exportations from, the United States, of such foreign manufactures before given. The enhanced value of the foreign cotton manufactures is stated at 100 per centum more than the raw cotton, and includes freight, insurance, duties, and all other expenses; and the cheaper labor in foreign countries, and the higher value of the sea-island cotton, generally used in such manufactures, and profits, &c., have also been considered.

The following estimate of the quantity of domestic "raw cotton" consumed in the United States, in domestic and in foreign manufactures, and in "household" or "home-made" articles, &c., for the year ending June 1st, 1850, is believed to be nearly correct.

Consumption of cotton in the United States in 1849-'50.

In domestic manufactures—deducting value of those exported from value of entire manufactures, and also 50 per cent. for cost of manufacture, profits, &c.—about \$29,000,000=256,638,000 lbs.

In foreign manufactures, (from domestic cotton,)—deducting from imports, (\$20,108,719) value of exports of same, (\$427,107)=\$19,681,612; and 50 per cent. for cost of manufacture, duties, profits, &c., &c... In "household," or "home-made" man-

9,840,800 = 87,087,000

7,500,000 = 66,372,000

Total consumption of raw cotton in the United States in 1849-'50 .. \$46,340,800 410,097,000 "

The total consumption in cotton manufactures same time—foreign and domestic-including "home-made," amounted to more than \$82,000,000, upwards of three-fourths of which were made in the United States.

Fractions are equalized in this estimate, and the value stated at the official average valuation of all cotton for that year. The cotton, of which the foreign manufactures consumed in the United States are composed, being mostly "sea-island," its value should perhaps be higher; but in such case, the values of the other cotton ought to be reduced in proportion to quantity and price, to make the correct average. The values of "sea-island" and "upland" should be kept separate in the treasury accounts.

The domestic consumption, of course, increases each successive year, equally with the population, and the discovery from time to time of new uses to which cotton may be applied also adds to the consumption; and

a full crop increases it.

Similar difficulties exist with respect to the ascertainment of the quantity and value of the "entire crop" of raw cotton, in each year. Various means of estimating the entire crop are adopted. In one mode, the first item is the quantity and value of exportations of raw cotton. The quantity is furnished quite correctly for this item, by the treasury returns of exports; except that the value is not always accurately given in The value stated in the treasury returns of exports can, however, generally be rectified, if erroneous, by reference to the general "prices current" of the same year, to be found in commercial newspapers. The price stated for 1851-'52 is 8.05 cents; and it is conceived the average is too small according to the commercial accounts of this country, and of Great Britain and France. It should be at least 9 cents. Nevertheless, in this paper the treasury price is adhered to. The second item is the quantity furnished the manufactories of domestic cotton. To ascertain this, even approximately, recourse can generally only be had to the unofficial statements of the manufacturers, and to commercial accounts, which cannot be otherwise than imperfect. The third item is the quantity used in what are generally called "household" or "home-made" manufactures, before adverted to. The fourth item is the quantity destroyed by fire or otherwise, and not received in market, or taken in the above accounts.

Another mode of estimating the "entire crop" is by estimating the number of acres of land in cultivation for cotton, and the number of agricultural laborers employed in cultivating it; the increase of such arable land, and of the labor by emigration to the cotton States, from other southern States; and the general yield of the land compared with past years; all derived from intelligence obtained by correspondence, or the public prints, and information generally diffused as to the effects of the season with reference to a full or a short crop, injuries by drought, storms, rains, caterpillar, &. Of course this last mode is a mere estimate. The most reliable data is that furnished by commercial and manufacturing dealers; though it has been observed that very often the estimates as to forthcoming crops, by purchasers, are too large, whilst, on the other hand, those who sell are prone to make them too small.

The following is an estimate of the entire crop of 1849-'50, given as an example of the first mode above mentioned of estimating such crop, and it is believed to be nearly correct. The year 1849-'50 has been selected, because the entire crop of that year is stated in the "census returns;" between which and the estimate now given a com-

parison can be made.

Entire crop of 1849-'50.

Exportations of domestic raw cotton635,382,000 lbs.=\$71,984,600	
Used for manufactories in the United	
States	
"Household," or "home-made" manufac-	
tures	
Destroyed by fire or otherwise, and not	
received in market	
10001100 III MICHIGAN AND AND AND AND AND AND AND AND AND A	
Entire crop of the United States in	
that cop of the Office States in	
1849-'50	

Fractions are equalized in this statement, and the values estimated according to the treasury average valuation, for all cotton, that year. A table, giving an estimate of the entire annual crop from 1790, up

to and including 1852, is annexed.

The statement in the census returns of the production of cotton in the United States is for the year ending June 1, 1850. specified was before the crop of the season of 1850 could have been ascertained. The statement is, of course, of the crop of the previous season of 1849, stated in the treasury returns of "exports," &c., for the year ending on the 30th of June, 1850. The treasury accounts of the exports of raw cotton for the year ending June 30, 1849, (the crop of the season of 1848,) state that 1,026,602,269 pounds were exported, being more than the entire crop stated in the census returns; and the quantity exported in 1851 (of the crop of the season of 1850) was 927,237,089 pounds. The crop of 1849 was a very short crop. It was also actually less than the crop of the season of 1839, of '42, of '43, of '44, or of '47; though its value, owing to the high prices received for it, was more than that of any previous crop. The exports of the crop of 1848 were 391,220,665 pounds more than those of the crop of 1849; and yet its value was \$5,587,649 less. The exports of the crop of the season of 1850 were, as above stated, 927,237,089 pounds, and they were valued in the treasury accounts at \$112,315,317; whilst the exports of the crop of 1851 were 1,093,230,639 pounds being 165,993,550 pounds more than the crop of 1850; and by the treasury account they were valued at \$87,965,732, or \$24,349,585 less than the exports of 1950.

Besides the census returns of the cotton crop of the season of 1849, given below, a statement from the same returns is given of the area of each State producing cotton for sale; the area of acres of improved lands in each; and the population of each; which may be useful for

reference and comparison.

Entire crop of the season of 1849, taken from the census returns.

	Bales of 400 lbs.	Bales of 400 lbs. Total number of	ACRES OF LAND	LAND.		POPULATION.		
States.		pounds.	Entire area.	Improved.	Whites.	Colored.	Total.	
		•						
Indiana*	10	2,000	337.	019,		10,788	988, 416	
Tilinois*	90	3,200	159	114,		5, 366	851, 470	
Kentucky"	1,669	667, 600	115,	6, 068, 633		220, 717	982, 405	
Virginia*	3,947	1, 578, 800	265,	360,		526, 357	1, 421, 661	
Florida	45,078	031,	931,	349, 423		40, 234	87, 401	٠,
Texas	57, 945	378,	8	635, 913		58, 492	212, 592	•
Arkansas	64, 987	994,	406,	780, 333		47, 571	209, 639	•
North Carolina	98,028	211,	120,	5, 443, 137		315, 608	868, 903	_
Louisiana	163,034	213,	715,	567,		262, 323	517, 739	·
Tennessee	192, 635	77, 054, 000	28, 160, 000	5, 087, 057	756,893	245, 732	1,002,625	•
South Carolina.	300, 901	360,	920,	074,		393, 884	668, 507	
Mississippi	494,774	909	174,	489,		310, 797	606, 555	-
Georgia	499, 091	636,	120,	6, 378, 479		384, 561	902, 999	**
Alabama	564, 429	771	462,	4, 435, 614		345, 164	771, 671	₹•
Total	2, 484, 531	993, 812, 400	548, 373, 120	58, 805, 080	6, 927, 989	3, 167, 594	10, 095, 583	

*These States are not considered as producing cotton for exportation. The bales only are given in the "census returns," and are stated to be of 400 pounds each. As the entire "sea-island" crop is included in this statement, the bags of which are usually less than 400 pounds each, it is perhaps as nearly correct an average as can be made, as to all the cotton produced and put in bags or bales, though bales of "upland" now actually average 450 pounds in most of the States.

The above is compiled from the published report of the Superintendent of the Census, dated December 1, 1851. The report dated December 1, 1852, is variant from the above, and states the entire crop at 2,468,624 bales, or 987,449,600 pounds. Both are below the actual crop. The cotton crop of the United States now amounts to upwards of seven-tenths of all the cotton produced in the world. The quantity annually *exported* from the United States is about eight-tenths of the aggregate of all exported by all countries.

The following estimates, compiled from the best authorities, sustain

these statements:

Cotton crop of the world, of 1851; and exports of all countries in 1852.

United States1	,350,000,000	lbs	1,093,230,639	lbs.	exported.
Egypt, &c			25,000,000		- "
East Indies		66	150,000,000	46	66
West Indies	3,100,000	66	3,000,000	66	66
Demerara, Berbice, &c.	700,000	66	500,000	66	66
Bahia, Macelo, &c	14,000,000	66	11,000,000	46	66
Maranham, &c	12,000,000	66	9,000,000	66	66
Pernambuco, Aracati,					
Ceara, &c	30,000,000	"	25,000,000	66	66
Brazil, China, and all	• •				
other places	250,000,000	"	40,000,000	"	"
Total 1	,899,800,000	66	1,366,730,639	66	66

The first column of the above states all that is estimated to be consumed, in the countries named, in "household" manufactures and for various domestic uses, as well as that used in their home cotton manufactories, and likewise all exported to other countries. In the second column is estimated the exports to contiguous foreign countries for manufacture, as well as the exports to Europe, &c. In the East Indies such exportations, to contiguous countries, is not less than the amount stated. An English writer, in 1824, (Smither's History of Liverpool, p. 116,) says, with respect to China, that cotton and cotton manufactures are "estimated to employ, directly and indirectly, nearly ninetenths of the immense population of that country. A very large proportion of what is made is used for internal consumption, particularly the very finest and most costly fabrics. Nankeens and chintzes form the principal articles of their exportations."

This estimate, it is believed, overrates the number of persons so employed. One-tenth of the 350,000,000 there may be so employed, but not more. The United States exported, in 1852, upwards of \$2,200,000 of domestic cotton manufactures (coarse white muslins) to China. We formerly procured some nankeens from China; but our imports of cotton goods from thence are now comparatively nothing. The above estimate as to the crop in China is doubtless too small, but the produc-

tion there is decreasing.

There is not now any serious cause for apprehension by the agricultural, commercial, or manufacturing interests of the United States, of successful competition with the southern States of this confederacy, by any other country, in the production of cotton.

From the day our independence was recognised by Great Britain, till within a few years past, her leading statesmen, with but few ex-

ceptions, used every effort and devoted every faculty and power to diminish and prevent all necessity for dependence, in any degree, by her capitalists, (having large and increasing investments in manufactures and commerce) upon any of the products of the United States. The younger Pitt—the most enlightened and sagacious, and therefore the most liberal statesman Great Britain has had in her councils within a century past, did not approve such policy towards us; but he was overruled. In Jay's treaty of 1794, as originally agreed to by the negotiators, it was attempted, by different provisions, to restrict us in the exportation to any part of the world, even in our own vessels, of our own raw cotton! Our negotiator, it seems, did not appreciate the future importance and value of this product to his own country, which had then recently embarked in its cultivation. British sagacity, however, not only foresaw it, but sought to stifle the enterprise in its infancy. These provisions were of course expunged from the treaty by the United States Senate, before that body would "advise and consent" to its "ratification." If the liberal and wise counsels of Mr. Pitt had been adopted and adhered to by Great Britain, she would have advanced in wealth and prosperity, and in all the true elements of strength, and power, and greatness, in a much greater degree than she has since 1783; and it would not have been any detriment to her that the consummation of the certain destiny of this country would thereby have been accelerated. We should not, as in former times, before the war of 1812, have had our commerce injured by open spoliations. That war would not have occurred. We should not have had, before and since the war, our agricultural and commercial interests fettered and crippled by her illiberal restrictions and regulations on the one hand, and by our countervailing legislation on the other. Until within a few years past, Great Britain has not relaxed her illiberal and selfish policy; and the cotton interests of the United States have seemed to be especial objects of her unceasing hostility.* She has used every exertion, and availed herself of every means she possessed, to create competition and rivals to the southern States of this confederacy in the cultivation of cotton, and to relieve herself from any dependence upon those States for the means of employment for her working classes, in the manufacture of cotton, and in auxiliary avocations. She experimented in its cultivation, at great cost in her West India colonies, with the advantage of slave labor, until she abolished the institution of "domestic servitude" in those colonies, as to those who had been held as "slaves." She then tried "apprentice" labor, with still more unfavorable success. She tried the cultivation of cotton in every one of her numerous possessions in the different quarters of the globe, where the climate and soil allowed any expectation of a favorable result. She encouraged its cultivation in different countries, not politically connected with her. Every kind of labor has been employed in these experiments: free labor; Irish, Scotch, Anglo Saxon, and African; colonists, apprentices, coolies, Chinese,

^{*}A member of the English Parliament—ex-Lord-Chancellor Brougham, who was considered somewhat famous—in a speech respecting our cotton manufactories, soon after the war which ended in 1815, said: "It was well worth while to incur a loss upon the first exportation, in order, by the glut, to stifle, in the cradle, those rising manufactures in the United States which the war had forced into existence, contrary to the natural course of things."

convicts, and slaves; Christians and Pagans, civilized and savage. Of her efforts to induce its cultivation elsewhere than in this country, we had no right to complain. But of her illiberal restrictions and wrongs done to us, we had; and they engendered no little ill feeling towards her in this country. Her statesmen, since the war of 1812, have urged in justification of her courses, that they were to "counteract" the measures of the United States, at different times, affecting her commerce and manufactures unfavorably. The conduct of the government of the United States has, however, from the outset, always been solely defensive and countervailing. We have not been in any instance the first to adopt illiberal and injurious measures. We have been constrained in past times to enact and enforce laws, necessary in proper selfdefence, against her illiberality, not only antecedent to the war, but since. That different relations were created by measures adopted under the administration of that profound and able statesman, Mr. Peel, and that they now exist between the two countries, is because Great Britain felt that every attempt to embarrass, or fetter, or restrain, or otherwise injure the trade and commerce of this country, would certainly recoil upon herself. The futility of warring against the natural laws governing trade and commerce, and against advantages given by the superior adaptation of climate and soil, and experienced and effective (because united) labor for the production of an article like cotton, and the folly and presumption of any nation striving to establish for itself an exclusive and selfish monopoly or control of all things, is fully demonstrated in the former course of the British people towards us. It is, perhaps, best for her that her experiments in making cotton, to "root the Yankees out," have so signally failed; for the cotton crop of the United States is the main link connecting the two countries commercially; and if it is broken, the entire trade between them will soon become comparatively valueless to both.*

And the efforts to induce to the production of cotton, to compete with the United States, have not been confined to Great Britain. France attempted it in Algeria, without favorable success. It has been tried by

^{*} The following has been extracted from an article, very abusive and denunciatory of this country, and its institutions and people generally, contained in a recent number of "Blackwood's (Edinburgh) Magazine." The parts now italicised betray the feelings and motives of the author:

[&]quot;In the year 1789, only one million pounds of cotton were grown in the United States; now, the produce amounts to about 1,500,000,000 of pounds! How great a stimulus this has proved to the employment of slave labor, by which it is raised, and to the rapid multiplication of the slaves themselves, can easily be imagined. The influence of the potato on the social, moral, and industrial character of the Irish people, has long been recognised among us. But the history of the cotton-plant shows how powerful a control an obscure plant may exercise, not only over the social character of a people, but over their general material prosperity, their external political power, and their relations with the world at large. The cotton shrub, which seventy years ago was grown only in gardens as a curiosity, yields now to the United States an amount of exportable produce which, in the year ending with June, 1850, amounted to seventy-two millions of dollars, of which from thirty to forty millions were clear profit to the country. With its increased growth has sprung up that mercantile navy, which now vares its stripes and stars over every sea; and that forcign influence which has placed the internal peace—vee may say the subsistence—of millions in every manufacturing country in Europe, within the power of an oligarchy of planters. * * * The new and growing commerce soon gave birth, likewise, in the free States themselves, to a large mercantile, manufacturing, and moneyed party, whom self-interest has constantly inclined to support the views and policy of the southern States."

the Turkish Sultan, and a superintendent and intelligent and experienced slave laborers procured from the State of South Carolina, but the trial did not succeed profitably. It has been tried in different places, on the extensive shores of the Euxine, opened to the commerce of Christendom by the cannon of the allies at Navarino, in 1827; it has been tried in Mexico, in Central America, in the different republics of South America, and in the empire of Brazil; it has been tried in different parts of the East Indies, and in Africa; and the fact has been fully and conclusively tested and established, that the soils, seasons, climate, and labor of no country can successfully compete with those of that vast region of this confederacy which has been appropriately styled the "Cotton Zone," in the raising of this product. It is proper, however, to state that many of the most intelligent cotton planters of that region insist that their now generally conceded superiority is not so much attributable to any radical difference of the soil or dissimilarity of the climate in that region, from those of several other countries in like latitudes, as it is to the advantages afforded by the aggregated and combined, and cheap, and reliable labor they derive from that patriarchal system of domestic servitude existing throughout the "Cotton Zone," and to the superior intelligence, and greater experience, and skill, and energy, of the American planter; and to the improved and constantly improving systems of cultivation pursued by them—the most affluent attending personally to his own crop.

The "Cotton Zone" extends from the Atlantic ocean to the Rio del Norte, and includes the States of South Carolina, Georgia, Alabama, Mississippi, Louisiana, and those portions of the States of North Carolina, Tennessee, and Arkansas, that lie below 35° north latitude; and all of the State of Florida above the 27th parallel of north latitude; and all of the State of Texas between the Gulf of Mexico and the 34th parallel of north latitude. The region described is an area of upwards of four hundred and fifty thousand square miles; but large portions are mountainous, or covered with water, and in each State more than two-thirds, from various other causes, it has been estimated,

is not adapted to the growing of cotton advantageously.

The annexed table shows the estimated cotton crop of each of the States mentioned that produced raw cotton for exportation in 1852; the number of agricultural laborers employed in the cultivation of cotton in each State; the estimated quantity in each State of lands now appropriated to the growing of cotton; and the quantity, not in cultivation in cotton, but that which may be advantageously applied to the growing of that product, when a further supply is needed; the number of agricultural laborers necessary to till such lands; and the probably attainable product of such land and labor.

Estimate of crop in 1852, and of crop Cotton Zone may produce.

States.	Bales of 400 pounds.	Hands employed.	Acres in cotton in 1852.	Area susceptible of cultivation in cotton.	No. of hands necessary therefor.	Probable production in bales of 400 pounds.
Tlorida. Texas Arkansas Louisiana. Tennessee South Carolina Mississippi Georgia Alabama Total*	80,000 100,000 100,000 200,000 220,000 310,000 740,000 750,000	162, 500 185, 000 187, 500	200,000 400,000 440,000 62,000 130,000 1,480,000 1,500,000	10, 000, 000 3, 000, 000 3, 000, 000 2, 000, 000 200, 000 6, 000, 000 3, 000, 000	1, 250, 000 375, 000 375, 000 250, 000 25, 000 750, 000 750, 000	5,000,000 1,500,000 1,500,000 1,000,000 100,000 3,000,000 1,500,000

In the above estimate of the number of hands employed in the cultivation of cotton, it will be noticed that nearly two-thirds of the slave population of the States within the "Cotton Zone" are excluded. Some are engaged in the cultivation of sugar-cane, rice, tobacco, and other products; others procure lumber, or superintend mills, or are employed on steamboats; some are mechanics, some domestic servants; and with them must be included those of advanced age, or infirm, and the women and children. Many of these doubtless contribute to the cotton crop, when living on plantations, but more labor is abstracted from cotton in various ways, than is given by them to it. A large number of slaves living in villages, towns, and cities, perform no agricultural labor whatever. It should also be stated, that in portions of some of the States, upwards of fifteen per cent. of the agricultural labor in cultivating cotton is performed by white citizens, who cultivate their small This is full proof that "labor" is not "degraded" crops themselves. there.

The hands are estimated at an average of four bales for each hand, and the land is estimated at eight acres for each hand, or 200 pounds for each acre. A reference to the table, (ante, p. 817,) showing the entire area in acres of each of the States within the "Cotton Zone," and other States, and the area of all the "improved" lands in each of said States, and the population of each free State, is necessary for comparison with the above, and that both may be considered understandingly.

It will be seen that the "Cotton Zone" is, when the necessity occurs, capable of sustaining and of employing in the cultivation of cotton, in addition to the slaves now there, a much greater number than the entire slave population of the States of Maryland, Virginia, Missouri, Kentucky, and North Carolina, or the probable increase for a long time.

The present free colored population and slave population of those States, and of those in the "Cotton Zone," is estimated as follows:

^{*} North Carolina, Virginia, and Kentucky are not included, as they cultivate other products more than cotton.

States.	Free colored.	Slaves.
Maryland	74,077	90,368
Virginia	53,829	472,528
Missouri	2,544	87,422
Kentucky		210,981
North Carolina	27,196	288,412
Total	167,382	1,149,711
Florida	925	39,309
Texas.	331	58,161
Arkansas	5 89	46,982
Louisiana	17,537	244,786
Tennessee	6,271	239,461
South Carolina	8,900	384,984
Mississippi	899	309,898
Georgia	2,880	381,681
Alabama	2,272	342,892
Total aggregate	207,986	3,197,865

These five first named States are the sources from which the "Cotton Zone" derives additional colored agricultural labor by emigration. If the demand for "raw cotton," or, after its manufacture, for exportation, should increase, as some intelligent persons anticipate will ere long be the case, upon the extension of our commerce to the Pacific, to China, the East Indies, and the Asiatic seas generally, and to our southern sister American republics, the lighter labor required of those engaged in cultivating cotton, and its constant concomitant "Indian corn," in comparison with that necessary in the growing of tobacco, hemp, rice, and other crops—the decreased cost of the support of the labor employed in cultivating cotton in the "Cotton Zone," o'id particularly in the southern portions—the healthfulness of such o cupation—the cheapness of the lands—the equal, if not greater, certainty of the crop—the certain market it always finds, and the greater profit derived from its cultivation-are causes combining to induce large emigration from the five States above mentioned, within the next few years, to the southern portions of the "Cotton Zone." Though the cotton crop will thereby necessarily be greatly augmented, it will not recede; for the labor once removed, and the lands settled, it will remain upon them, and the crops will increase so long as the demand justifies such increase. In process of time the annual product of cotton in the United States can be augmented to six times its present yield, and it will not be more astonishing than its augmentation since 1790. And on this point it should be observed, that when the cultivation becomes more extended, and to all sections of the "Cotton Zone," covering more than eight degrees of latitude, and more than eighteen degrees of longitude, the probability is lessened of any untoward season, or other casualty, affecting the aggregate crop injuriously, and consequently the average supply, and the

prices, will become more regular and uniform.

The following table of all the exportations from the United States since 1789, up to and including 1852, will be found useful in estimating the value of the cotton crop.

Exportations (specie, &c., included) from the United States since 1790.

Years.	Total.	Domestic.	Foreign.
1790, '91, and '92	\$59, 970, 295	\$57, 166, 000	\$2,804,295
1793, '94, and '95	107, 125, 277	90,000,000	17, 125, 277
1796, '97, and '98	185, 441, 400	99, 141, 400	86, 300, 000
1779, 1800, and '1	243, 753, 227	112, 456, 629	131, 296, 598
1802, '3, and '4	205, 982, 267	120, 381, 627	85,600,640
1805, '6, and '7	305, 446, 134	132, 340, 321	173, 105, 813
1808, (embargo)	22, 430, 960	9, 433, 546	12, 997, 414
1809, '10, and '11	180, 278, 036	119, 066, 420	61, 211, 616
1812, '13, and '14 (war)	73, 310, 674	61, 822, 533	11, 488, 141
1815, '16, and '17	222, 149, 764	179, 069, 799	43, 079, 975
1818, '19, and '20	233, 115, 323	176, 514, 915	56, 600, 408
1821, '22, and '23	211, 833, 799	140, 701, 487	71, 132, 312
1824, '25, and '26	253, 117, 367	170, 649, 955	82, 467, 412
1827, '28, and '29	226, 948 184	165, 291, 553	61, 656, 631
1830, '31, and '32	242, 337, 034	183, 876, 556	58, 460, 478
1833, '34, and '35	316, 170, 983	252, 530, 942	63, 640, 041
1836, '37, and '38	354, 569, 032	298, 514, 915	56, 054, 117
1839, '40, and '41	374, 966, 165	323, 812, 247	51, 153, 918
1842, '43, and '44	300, 238, 060	270, 478, 958	29, 759, 102
1845, '46, and '47	386, 783, 744	352, 279, 133	34, 704, 611
1848, '49, and '50	451, 685, 671	402, 513, 683	49, 172, 989
1851	218, 388, 011	196, 689, 718	21, 698, 293
1852	209, 641, 625	197, 604, 582	12, 037, 043

From the foregoing tables, and others contained in this paper, or annexed hereto it appears that cotton and domestic manufactures now constitute more than one-half of the exports of the United States of agricultural products and domestic manufactures thereof. They constitute more than two-fifths of the total exportations of all kinds, including "products of the sea," "products of the forest," as well as the "products of agriculture" and "manufactures," "bullion and specie," &c. The statements from the treasury books show, with reference to "exportation," how far behind cotton every other agricultural product is, as to its increase, beyond the necessary consumption of the United States, since cotton has been cultivated for the foreign market. erally a country does not export any but its surplus productions. as the increase of some of our other agricultural products besides cotton has been, such increase has, in but few seasons, exceeded the increased wants of our population, constantly and rapidly augmenting by emigration.

It is important, in connexion with the tables hereinbefore given, to notice the importations and exportations of bullion and specie. The

following is a statement thereof since 1821:

Bullion and coin imported and exported since 1821.

Years.	Value of imports.	Difference.	Vasue of exports.	Difference.
1821, '22, and '23 1324, '25, and '26 1827, '28, and '29 1380, '31, and '32 1833, '34, and '35 1836, '37, and '38 1839, '40, and '41 1842, '43, and '44 1845, '46, and '47 1848, '49, and '50 1851	\$16, 532, 632 21, 411, 566 23, 044, 483 21, 369, 413 38, 113, 447 41, 664, 411 19, 466, 622 32, 237, 780 31, 969, 263 17, 640, 256 5, 453, 981	\$895, 426 1, 862, 107 4, 519, 369 26, 947, 213 27, 855, 780 20, 449, 236 17, 549, 761	\$27, 661, 226 20, 516, 140 21, 182, 376 16, 850, 044 11, 166, 234 13, 808, 631 27, 228, 089 11, 788, 544 14, 419, 502 28, 769, 262 29, 465, 752	\$11, 128, 594 7,761, 467 11, 129, 006 24, 011, 771
1852	5, 503, 544		42, 674, 135	37, 170, 591
Aggregate	274, 407, 398	100, 078, 892	265, 529, 935	91, 201, 429

It is not within the proper range of this paper to comment upon any of the different opinions entertained with respect to the causes and effects of the fluctuations exhibited in the above statement, and in the detailed table annexed hereto of these imports and exports. Some political economists contend that what is called the "balance of trade" being in favor of or against the United States, as shown by the importation or exportation of bullion and specie, is the best evidence of the prosperous or unprosperous condition of our trade and commerce. On the other hand, others insist that such importation or exportation is no true test on either side; and that when any country has a surplus of bullion and specie, it is best to export a portion of the redundant supply; and that then those articles, besides fulfilling their proper functions of being the media and regulators and equalizers of trade and commerce, become themselves legitimate subjects of trade and commerce like other products; and that this rule especially applies to a country producing the precious metals.

The sole object, however, of the reference now made to the importation and exportation of bullion and specie is to notice the fact, equally forcible as respects both of these theories, that but for exportations of raw cotton, according to the treasury statistics, more than forty-eight millions of bullion and specie would have been required annually, since 1821, to have been exported (in addition to all that was exported) to meet the balances of trade against us that would have existed but for those exportations of raw cotton. It is true the treasury accounts of exports are not safe criteria as to values, they being in the United States, as in other countries, generally undervalued; but without the exportations of cotton from the United States, the balance-sheet would be a sorry exhibit of our condition as a commercial people, and of general prosperity. Our other exports, and especially of other agricultural products, are, when separately estimated, really insignificant in comparison with cotton. A table of the exportations of the principal domestic exports, since 1821, is appended. The following statement

826

shows the principal domestic exports in the years 1821, '22, and '23, and in the years 1850, '51, and '52:

Articles.	1821, '22, and '23.	1850, '51, and '52.
Total exports of domestic produce	\$140,701,381	\$526,005,614
Cotton	64,638,062	272,265,665
Tobacco.	18,154,472	29,201,556
Rice	4,878,774	7,273,513
Flour	14,363,696	29,492,044
Pork, hogs, lard, &c	4,003.337	15,683,772
Beef, hides, tallow, &c	2,282,318	4,795,645
Butter and cheese	604,106	3,119,506
Skins and furs	1,940,424	2,628,732
Fish	2,894,229	1,391,475
Lumber, &c	4,156,078	15,054,113
Manufactures of all kinds	9,013,259	51,376,348

Among other articles not specified in this statement there was exported in 1852 over \$1,200,000 of oils, \$1,200,000 of naval stores, \$500,000 of pot and pearl ash, \$2,500,000 of wheat, \$2,100,000 of Indian corn and meal, and \$1,100,000 of "raw produce," kind not stated in returns.

The relative importance and value of the cotton crop of the United States to the other leading agricultural products of this country, and other principal articles of our domestic and foreign commerce, is more striking when the circumstances attendant upon the progress of each crop, and the others respectively, are considered. The augmentation of our population—the vast extension of our territory—the great increase of the area of our lands in tillage—the immense additions to our agricultural labor in our native population and in foreign emigrantshave given us consequent vastly increased resources and ability for greater production. As before shown, however, the greater portions of most of the agricultural products of the United States, and of the manufactures of them, except cotton, are consumed in the United States. The fact that the exportations from the United States of many of its most important products have not increased in proportion to our increase of population, resources, and ability, and that the article of raw cotton is a signal exception, surely is some evidence of its value and of the real position and actual increase of the wealth and prosperity of the cotton region. When it is recollected that very little of the additional labor given by foreign emigration in ures to the cultivation of cotton, (and it is estimated that not more than one in 600 of the agricultural emigrants go to the cotton region;) and when the extent of internal improvements in the States where cotton is not grown, to transport their produce to market, is considered, it will be seen that this advancement of the cotton region is solely the result of steady industry, regulated by the intelligence to make it advantageous. The increased labor of that region has been

almost exclusively derived from those contiguous States that do not cultivate cotton. The disparity between the increase of cotton and that of other agricultural products appears much greater when these facts are considered; and the doctrine that labor advantageously applied, and not population merely, is the true foundation of a country's wealth and prosperity, is fully verified.

The treasury accounts before referred to show that the aggregate increase of our foreign importations of merchandise has not equalled our increased exportations of raw cotton, and that it, as before stated, has most of all other articles enabled us to keep down the balance against us created by such importations. And it should be noticed, also, that the increase of importations is mainly for the use and consumption of those portions of the country that do not produce cotton. The consumption of imported merchandise and products in the cotton region may be greater than the proportion of its white population to that of other sections, but in the aggregate it is much less, and it is also much less than the proportion of its whole population to that of the other States.

Adding the increase of the exportations of our domestic manufactures of cotton to the exportations of raw cotton, the comparison between it and other agricultural products is still more favorable to it. Prior to 1826, such exportations, if any were made, were not specified in the treasury returns, and all our importations of cotton goods specified in those returns are exclusively those of foreign manufacture that had been imported hither. And the nearly total decrease of the importation of foreign raw cotton, and the manufactures thereof, and the substitution therefor of our own product, and manufactures thereof, should also be estimated.

Nor is the supply furnished from the cotton crop for the numerous "household" or "home-made" manufactures used in the United States an unimportant item constituting its value. The aggregate of the value of all these manufactures was, in 1849, upwards of \$27,540,000, and it is estimated, as before stated, that the cotton consumed in them is worth annually upwards of \$7,500,000. But for our own crop, this

would have to be imported.

Though it is not intended to express any opinion in this paper upon the policy of a protective tariff, it is proper to say that the increase of our domestic cotton manufacturing establishments, within a few years past, has well nigh been as astonishing as the increase of the cotton crop, especially when the advantages of cheap labor and low interest for capital borrowed, and other advantages possessed by British and European manufacturers, are considered. Against such advantages, our manufacturing establishments already use about one-third of the entire crop of raw cotton of the United States. Prior to the war of 1812, they were of little consequence. They first became of importance during that war. They now supply more than three-fourths of the cotton manufactures consumed in the United States. Such supply for home consumption of our domestic cotton manufactures exceeded fifty-seven millions of dollars in 1849-'50. We exported in same year upwards of four millions seven hundred thousand dollars of our domestic cotton manufactures to foreign countries; and these exports in 1852 amounted to upwards of seven million six hundred thousand dollars. Our importations of foreign cotton manufactures in 1852 were \$19,689,496, and of this we exported \$991,784, consuming the balance of \$18,697,712. It will be noticed that our exportations of domestic cotton manufactures are over two-fifths of the value of foreign cotton manufactures consumed in the United States. Deducted from the same consumption, it leaves only \$11,025,561 as a balance of the foreign manufactures so consumed.

We now pay annually out of the avails of the cotton crop in Great Britain and Europe about \$10,000,000 to those countries for manufacturing for us that portion of our raw cotton which is first exported thither, and the manufactures thereof then imported into the United States; but they are at the same time the purchasers of two-thirds of our entire crop, and most of the articles they send us could not be manufactured here at the same cost to the consumer; and the cotton producers insist that the foreign market is the most valuable to them, and that they have the right to sell their crops where and to whom they choose, and to employ and pay whomsoever it pleases them to manufacture it. Our domestic cotton manufactures are, however, destined to increase still more. Everything indicates that an immense commerce will ere long arise in the Pacific ocean, and through it to China, the East Indies, and the Asiatic seas generally. The commercial nations of the world are now about to embark in a struggle for the control of that commerce which may perhaps continue through the present decade. But the superiority of position, the greater diversity of the productions of the United States, and the enterprise of our merchants and navigators, will insure the supremacy to us. The domestic cotton manufacturers of the United States may, it is believed, rely upon immensely increased markets for the goods they now manufacture being afforded by the commerce thus opened. The amount necessary to supply these new markets, it has been anticipated by some, will require, in a few years, cotton equal in quantity to the present "entire crop" of "upland" cotton of the United The superior facilities for such commerce which our merchants will possess with respect as well to the outward as to the return trade, will enable them to sell our domestic cotton manufactures in those markets more advantageously than any other country can sell the same kind of goods. The official statistical tables show that the domestic cotton manufactures of the United States have not only increased in proportion beyond the increase of our aggregate population, and in a proportion beyond any other prominent article of manufactures, but, in fact, such increase of the cotton manufactures of the United States since 1826, with reference to exportations, exceeds in value the aggregate of the increase of all our other domestic manufactures added together!

A gentleman holding a high position in the legislative department of the federal government, and whose intelligence on this subject is not surpassed by any, estimates that in 1852 the capital invested in cotton manufactories in the United States is at least \$80,000,000; that the value of the annual products of such manufactories is at least \$70,000,000; that as many as 100,000 male and female laborers are employed in such manufactories; and that quite 700,000 bales, or 315,000,000 pounds, of cotton, worth at least \$35,000,000 will be spun

and sold as thread and yarn, or wove into muslin and other manufactures, in this year—1852.

With reference to our foreign commerce especially, the increased consumption in the United States of foreign and domestic cotton manufactures, in lieu of articles that must have swelled our importations still more than has been the case, is an important consideration. But for our cotton, until our domestic products of wool, of silk, and of flax, had become sufficient for our necessities, we should have been compelled to rely on foreign countries. Cotton and its manufactures have decreased the demand for the other articles. In this respect the increased consumption of cotton and its manufactures in the United States and in foreign countries should be regarded by those who deprecate an excess of importations over exportations as injurious to a country, as having been greatly beneficial to our foreign commerce, inasmuch as it has lessened the importations by us of the other articles mentioned.

If the exportations of raw cotton from the United States should, contrary to general anticipation, decrease from any cause, unless its place, as an article of exportation, could be fully supplied by an equivalent amount of domestic manufactures of cotton exported, its cultivation and product must, of necessity, also decrease in a corresponding degree; and the 737,500 of able agricultural laborers, and the 4,572,000 acres of arable land now devoted to its production, would be diverted, by the same necessity, to the production of other articles, (wheat, rye, corn, barley, oats, and the like) and the raising of stock for provisions, (beef, pork, lard, butter, &c.) The result, it can be foreseen, would be the cheapening of those articles, and rendering their production in the present grain-growing and stock-raising States less profitable than at present, and the agriculturist and stock-raisers in these States would also then lose their markets in the cotton-growing States, besides having to encounter competition from them in other markets; and besides, some of the surplus labor of the cotton-growing States would then be employed in manufactures and mechanical pursuits, now chiefly engrossed by other States, from which the supplies are now received by the cotton-growers.

The causes of the fluctuations in the prices of cotton have been subjects of investigation and discussion among the political economists of the United States, and others interested, but hitherto their investigations and discussions have not resulted in much practical good. Conventions of cotton-producers have been held in the Southern States, and different theories advanced as to these causes, and different remedies suggested. Disagreements as to the causes of these fluctuations have produced differences of opinion as to the remedies and preventives; and consequently, heretofore, no measures of a practical character have been adopted. In some instances the causes are widely different from those producing similar effects as to other products. Doubtless, the extent of the crop has, ordinarily, no inconsiderable influence on the price; and yet, whilst the crop of 1850, the exportations alone of which were 927,237,089 pounds, which at 12.11 cents, brought \$112,315,317, the short crop of 1848, the exportations of which were but 635,383,604 pounds, brought 11.31 cents, or \$71,984,616; and the crop of 1848, the exportations of which were 1,026,642,269 pounds, brought 6.5

cents, or \$66,396,967; and repeated instances will be found in the annexed tables, where large crops have brought large prices, and short crops short prices. The extent of the crop cannot, therefore, in all cases be regarded as governing the prices. The prices of freights have some influence. Much more depends upon the condition of the foreign and domestic cotton manufactories—the general depression or prosperity of trade, commerce and navigation, and the state of the money market. The manufacturers at home and abroad have to resort to extensive credits to carry on their works, even to purchase the raw cotton; and the scarcity of money is certain to cause a corresponding depression in the price of cotton. But the primary and chief cause of these fluctuations is to be found in the fact, that very often, so soon as raw cotton leaves the possession of the planter, whether it is purchased from him or not, it becomes the stake for the most hazardous gambling among those who should be styled commercial speculators and gamblers, rather than merchants. When it is seen that a rise of cotton of one cent per pound creates a difference in the value of that exported from the United States alone, of ten millions of dollars, (and of course a rise of a mill, one million, and of a tenth of a mill, one hundred thousand dollars;) and when it is recollected that raw cotton is regarded as a cash article, and used in lieu of exchange for remittances abroad, it can readily be imagined that temptations and inducements exist to the most hazardous speculations in that article, by those who imagine they foresee an advance in its price, and who, so soon as they purchase, exert themselves to effect the result they desire. The establishment of "Planters' Union Depots" at the chief shipping ports in the South, for the storing of cotton for sale, and also similar depots at or near the chief Atlantic cities, has been proposed as a remedy for, and prevention of, the evils complained of. And the establishment of similar depots at different points in Continental Europe has also (since recent occurrences in Great Britain, indicating a revival of the ancient hostility to the cotton interest of the United States) been suggested. Doubtless, the establishment of such "Continental Depots" would open new, as well as extend the existing markets for our raw cotton, among the continental manufacturers; and it would greatly encourage and promote the latter, and cause them to become formidable competitors and rivals to the manufacturers of Great Britain, and it is not unlikely some practical measures of the kind will be adopted. Direct trade between southern ports and Europe, so far as it respects the cotton exported thither, has been looked to as likely to relieve the planting interest from the effects of the fluctuations as to prices, and at the same time to relieve it from the exorbitant and onerous charges it is at present subject to, by shipments to Eastern Atlantic ports before shipment to Europe; but it is strongly doubted whether the result of such change, without further preventives, would not be merely another illustration of the old fable of the fox and The planter will always be subject to similar exactions to those now made; and they will be increased, till he restrains himself from parting with the plenary and personal control of his crop, in any way, except by absolute sale. He will not be relieved whilst the payment of advances on his crops, or other mercantile debts incurred on their credit, constrain him, year after year, as to the disposition of them. To be relieved, he must become less dependent on the store-keeper, and more self-dependent; and then he can constrain the purchaser to come to his plantation to purchase his crop, and if he is not paid a fair price, refuse to part with it, and keep it in store until he can get such price. When planters generally adopt and adhere to such system, it will be of little consequence to them what charges their crops are subjected to after they leave their hands, and they will be unaffected by the fluctuations occasioned by speculations and gambling. The foreign and domestic manufacturers will also find that it is their interest to get rid of the intermediate commercial agencies, and expenses, between them and the planter, and will unite in the adoption of such system.

Appended hereto are tables of the exports of raw cotton in 1852, exports of domestic cotton manufactures, same year; exports of foreign cotton manufactures, same year; and imports of cotton manufactures, same year. Particular attention should be given to them. On such reference, the fact cannot escape observation, that the government of the United States, by liberal and judicious (and judicious because liberal) arrangements with the different governments of this and the southern continent of America, by enabling these countries to pay for our domestic cotton manufactures in their products, which we do not raise, may open extensive and profitable markets for us, thereby promoting the prosperity as well of the manufacturer as of the producer of cotton. And once open and establish such market, the demand would in a few years, it is anticipated, be equal to the whole of our present exportations. The field of commerce before us, and for us, in these countries, and in the Pacific and East Indies, is unbounded.

These facts fully demonstrate not only the futility of all the expedients that may be adopted by foreign governments to supplant the cotton crop of this country, but also the inefficiency and folly of any measures of restraint or coercion that may be contrived by them to "counteract" whatever policy the United States may decide to adopt, at any time, to sustain and maintain the great interests involved in the cotton crop. If it should become necessary, the cotton-growers of this confederacy can, of themselves, withhold from any foreign country every pound of cotton; and the labor now employed in its cultivation could be, in one season, restricted to growing merely enough for our own consumption. It is an error to suppose that such measure would be ruinous, or even permanently injurious to them. Such labor could be employed in the cultivation of other products-in the rearing of stock, and articles of subsistence, and in the improvement of the lands; with little detriment that would not be temporary, and with less loss and inconvenience to them, than a similar revolution in industrial pursuits and productions would cause in any other country. That the cotton-producers of the United States may rightfully exercise the power, which, by union and concert of action, they unquestionably possess, of decreasing or increasing the aggregate annual supply, and regulating its price, so as to secure the receipt of its just value, cannot be denied. Owing to the multiplied charges and expenses to which his cotton is subjected before he receives its proceeds, the planter is generally the person who makes the least profit from it. What are believed to be the most practical preventives have been before alluded to Means and ways of avoiding imposition will suggest themselves to the intelligent planter, and his example will be followed by his neighbors. Ere long our manufactories will furnish us with all of the cotton goods we need, at our own doors, and of our own manufacture, from the product we have raised. But whatever we may determine to do, no governmental policy of any foreign country, hostile to our interests—no combination of such governments—can release or lessen the absolute dependence upon the "Cotton Zone" of the United States, which all who manufacture or use this product are, and must continue to be subject to, till Providence decrees the change by means now unforeseen and unanticipated.

Before 1791, foreign raw cotton was admitted in the United States duty free; but, after the first of January of that year, it paid a duty of three cents per pound, till the double duties were imposed by the act of July, 1812. During the war, and till April, 1816, it paid six cents, and since that day it has paid three cents, till, by the act of 1846, it was made free. Alexander Hamilton, in 1791, recommended the "repeal" of the duty as "indispensable" for the security of the "national"

manufacturers" of cotton.

Within two-thirds of a century, this product has become one of the most important of the agricultural products of the world, and an article of necessity for which no adequate substitute can readily be had. It is now by far the most valuable article of commerce existing between different nations. The foreign commerce of no one nation, in wheat, or wheat-flour, or other cereal products for the subsistence of man-or in beef, pork, or other provisions, even if estimated together-has ever been, or is now, as great in value as that of the United States in the article of raw cotton produced in the United States, and in manufactures therefrom. The articles of tea, tobacco, ardent spirits, wines, silks, and coffee, have ranked high on commercial lists; but none of them have equalled, in any one country, the present rank of American cotton and its manufactures; and the articles just specified are, too, all luxuries, not absolutely indispensable for subsistence or raiment, and for all of them substitutes may be found. In fact, if the importation or use of every one of these articles were destroyed or decreased by legislative enactments, or the equally arbitrary decrees of fashion or custom, or by other means, the next generation would not feel the depri-The abandonment of other articles formerly used instead of manufactures of cotton, and the general use of the latter, and especially of the ordinary kinds, throughout the world, (induced by their cheapness and superiority,) render them indispensable to the comfort of man till something is discovered to supply their place. For half a century, nearly every people-of every degree of civilization, of every class of society, and in every variety of climate—has adopted the use of cotton manufactures. Such is the character of the product, and so diversified are the articles that can be manufactured from it, that they have taken the place of many other articles widely different from each other; and they are applied to various and dissimilar uses, in climates of different temperature, and among different races and nations, whose habits and customs are as unlike as their respective countries. The manufactures

of this product in the world, now equal the manufactures of animal wool, of flax, and of silk, all combined.

The statements now made are of incontrovertible facts, verified by the official statistics, not only of the government of the United States, but of foreign governments, and by the commercial accounts of this country and of other countries. They establish, it is believed, the correctness of all the opinions advanced in this paper as to the paramount importance of the cotton crop of the United States, not merely to our own country, but to the world, over every other agricultural product that has been, now is, or is likely to become, an article of commerce between nations. They certainly prove that it is the chief element and basis of the commercial prosperity of this confederacy, and as well with respect to the trade between the States as to the commerce of all with foreign nations.

The statistics adduced show the following facts:

The cultivation of cotton and its preparation for market in the United States, at this time, employs upwards of 800,000 agricultural laborers. As has been stated, 85 per centum of this number are slaves; and the residue (120,000) are white citizens, who are found in every part of the cotton zone, raising cotton by their own labor, on their own lands—a practical refutation of the slander that "labor is degraded" in that region. These citizens and their families are sustained in part by the cotton crop. And for every two able-bodied cotton-field hands, it is estimated that at least three of inferior physical capacity for labor are employed in raising subsistence or in domestic avocations on the plantation, or reside in the cities, &c. All these are supported from the avails of the cotton crop.

At least \$25,000,000 in value of breadstuffs, provisions, salt, sugar, molasses, tea, coffee, shoes, blankets, articles of clothing, and other articles of necessity or comfort, is annually required for such laborers and others engaged in such production or preparation, or who possess the capital (lands, slaves, &c.,) employed therein; and of live stock, agricultural implements, machines, bagging, rope, &c., chiefly furnished by the other States of the confederacy from their own products or manufactures, or, through them, from foreign countries who purchase our

cotton.

Cotton employs upwards of 120,000 tons of steam tonnage, and at least 7,000 persons engaged in steam navigation in its transportation to southern shipping ports. In some sections it pays freights to railroads for such transportation. Its first tribute to the underwriter is for insurance against casualties in its transportation from the interior.

Cotton affords employment and profit to the southern commission merchant or factor, and to the many and various laborers engaged in carting, storing it, &c., in the southern port; and a second tribute is paid to the underwriter for insurance against fire whilst in store. The "compressing" and relading it for shipment coastwise to eastern Atlantic cities, or to foreign ports, and insurance against the dangers of the seas, give additional employment, and cause additional charges.

The transportation of that portion of the crop sent along the gulf coast to the principal gulf ports, or coastwise to eastern Atlantic cities, employs upwards of 1,100,000 tons of American shipping in the gulf

and Atlantic coasting trade, and upwards of 55,000 American seamen engaged in such trade. As no foreign vessel can participate in the trade, the freights are highly profitable. They ordinarily average from the gulf ports to New York not less than five-eighths of a cent per

pound freight.

In the eastern Atlantic cities, the wharfinger, those who unlade the vessel, the drayman, the storekeeper, the commission merchant, the cotton-broker, the weigher, the packers who compress the bales by steam power or otherwise, the laborers, and those who charge for "mendage," "cordage," &c., &c., the fire insurer, and the shipper, the stevedore, and numerous other persons in those ports, find profitable avocations arising from cotton, whether destined for a home or for a foreign market.

If destined for a home market, it pays the expenses of relading for shipment coastwise, or of inland transportation, by railroad or otherwise, till it reaches the manufactory. It gives employment at this time to upwards of \$80,000,000 of capital invested in such manufactories. It affords means of subsistence to about one hundred thousand operative manufacturing laborers, male and female, whose aggregate annual wages exceed seventeen millions of dollars. The manufactories consume coal, use dyestuffs, employ machinists and other mechanics, and encourage, because they aid to sustain, the carpenter, the mason, the shoemaker, the tailor, and indeed all others in their vicinity for whom they create employment. Calculating interest on the capital invested, and all other expenses, estimated at \$62,000,000 annually, (including raw cotton worth \$35,000,000,) they furnish manufactures valued at \$70,000,000. And there are, it is believed, at least 25,000 persons in the United States who find profitable avocations in the receiving and sale or shipment of these domestic cotton manufactures, whether consumed at home or abroad.

More than 800,000 tons of the navigation of the United States engaged in the foreign trade are employed in carrying American cotton to Europe and elsewhere, and upwards of 40,000 American seamen

are given employment in such vessels.

It is estimated that the foreign tonnage and seamen employed in carrying American cotton to Europe and elsewhere to foreign countries amount to about one-sixth of that of the United States so employed. An amount of cotton not equal to the average annual crops of Alabama, Georgia, Mississippi, and South Carolina, united, is annually furnished by us, and provides means of employment in Europe for upwards of \$300,000,000 of capital, invested in cotton manufactories, and to more than 3,000,000 persons of the "working classes" and others, who receive, store, sell, transport, or manufacture the raw product, and to many others, engaged in the sale or shipment of the manufactures.

And not the least valuable of all the uses of this product to the people of the United States is, that it affords to the household of the humblest citizen, of every occupation—to the husbandman, the mechanic, and the laborer, whether distant from the marts of commerce or without the pecuniary ability to resort to them—and to the planters and their dependents, the masters and the servants, the means of supplying themselves, by their own handiwork in its manufacture, with numerous,

and various, and inappreciable comforts, which, without it, they would have difficulty in obtaining. In yielding them such comforts, it stimulates them to industry and frugality; it gives them contentment; and it fosters and cherishes that elevated spirit of independence, and that equally ennobling feeling of self-dependence, under favor of Providence, which ought to be universal constituents of American character. Not less than \$7,500,000 in value of the products of the cotton-fields of the South is annually appropriated to such uses.

Every interest throughout the land—at the north and the south, in the east and west, in the interior, and on the Pacific as well as the Atlantic coast-receives from it active and material aid. It promotes essentially the agricultural interests in those States where cotton is not produced. It is the main source of the prosperity of the mechanic, the artisan, and other laboring classes, as well as that of the merchant and manufacturer, in every section of the Union. Everywhere it has laid, broad, and deep, and permanent, the foundations of the wealth and strength of the United States, and of their independence of foreign nations. More than anything else has this product made other nations, even the most powerful, dependent on the "United States of America." More than any other article, nay, more than all of other agricultural products united, has cotton advanced the navigating and commercial interests of the eastern Atlantic States, and of the whole Union. It, more than any other agricultural product, has cherished and sustained those interests, not merely by its direct contributions, but by awakening commerce in other countries, from which they have received profitable employment. Neither the whale-fisheries nor the mackerel and cod-fisheries have been of the same importance and value to those interests as the annual cotton crop of the United States (since the war of 1812) has been for its transportation coastwise, and exportation to foreign countries. Like the light and heat of the sun, the genial effects of this inestimable blessing, which Providence hath bestowed upon this favored people, reach every portion of the land. They extend to every city, and town, and village, and hamlet, and farm-house-to the ship, to the steamboat, to the canal-barge, and to the railroad. Throughout the length and breadth of this vast empire, there is not a tenement in which manufactures of this product are not found. In the sacred temples, in the halls of justice and of legislation, in the counting-house, in the workshop, in the stately mansions of the rich and lowly dwellings of the poor, wheresoever man resorts, may they be Cotton is found in the silken tapestries and decorations of the fashionable parlor, and it contributes more to various articles in less costly furnished apartments. It is used in the luxurious couch of the affluent, and in the pallet of the indigent. Every trade, calling, occupation, profession, and interest—all classes, in all seasons, and at all times-in the United States, need and use manufactures of cotton, in habiliments for the person and otherwise, in ways as various as their wants. The editor in his gazette, the author in his book, the lawyer in his brief, and all in their correspondence, use paper made from cotton. And not only have cotton and manufactures from it entered into and become indispensable to the convenience and comforts of the people of the United States-not only has this boon from the Giver of all good to less than a third of the States of the Union been the primary and

copious fountain from which has flowed the chief portion of the vast aggregated wealth of the confederacy—not only has it, for at least forty-seven years, done more than all else to enable us to attain our present advanced position as a commercial people, equalled but by one nation,-but, unless it is forbidden by a greater than earthly power, we shall ere long, chiefly by the increase of the cotton crop, hold supremacy over her. The aggregate of our exportations of raw cotton since 1821, including that year, is upwards of one thousand five hundred and thirtynine millions of dollars, according to the Treasury returns; and whenever the increased wants of foreign countries require an increased supply, the quantity of at least one thousand and three hundred millions of pounds, which hereafter will probably be produced annually for foreign and home consumption, can be augmented to meet the full demand, and still further increased for many successive years. We possess the resources in land and labor to supply the whole world; and, after retaining all that is required for our own consumption, it may be anticipated that hereafter, whilst we are blessed with peace and fair crops and prices, our annual exportations will not be less in value than one hundred millions of dollars. With this we can in a few years extinguish our foreign debt, both public and private, and amply supply ourselves with all the necessaries, comforts, conveniences, and luxuries of other countries which we do not yet produce cheaply or in abundance.

There are other important results of the cotton crop of the United States deserving notice. There is one that must suggest and commend itself to all acquainted with the subject, and especially to the wise and intelligent statesman who looks beyond the generation in which he lives, and above the atmosphere of party, upon which comment is omitted in this paper, lest the restrictions referred to in the first para-

graph might be considered by some as violated.

But there are two influences of this product (both moral and political, rather than pecuniary) which should not be overlooked. The first relates to our own country exclusively, the second to its position with other nations.

The influence of the various "cotton interests" in every section of the confederacy in strengthening the bonds and bands of that federal union of the thirty-one States which constitutes our strength, and glory, and pride—its power in insuring the maintenance of the federal compact inviolate, and the maintenance of the laws of the land enacted under it—that influence which unites the promptings and also the restraints of self-interest with those of patriotism—is neither light nor transient. It is potent and permanent. Cogent and satisfying to every true American are its teachings that no "section" of this confederacy is the rival of any other "section," except in patriotic efforts to advance the welfare of their common country. Their natural, and rightful, and legitimate interests do not clash; and all are best promoted by aiding, sustaining, supporting, and cherishing each other. If any would maintain the false doctrine that a "section," or even a single State, may justly have its equality reduced, its rights and interests disregarded and broken down, or that the local interests of one section may be promoted at the expense of any other of inferior numerical strength; and if, unrestrained by the federative compact, they should attempt the enforcement of such principles,-when the time comes for practical action, the conservative influences above adverted to, in all sections, may be relied upon for the administration of a rebuke which, though it fails to convince the misguided of their error, will not be the less withering in its effects upon them, or the less powerful in upholding right and in the

preservation of concord and union.

With respect to foreign nations, it cannot be denied that by means of our cotton crop we have contributed to the necessities and wants of millions of the people of other lands; we have created employment for their manufacturing laborers; we have done much to ameliorate the condition and alleviate the sufferings of all the oppressed and impoverished working classes of the old countries, and added to the sum of human comfort and happiness more than any other people within the last half century. And it has not been a theoretic principle, a transcendental abstraction, or a utopian scheme of "liberty, equality, and fraternity"a cheat, like "Dead-sea fruits, that turn to ashes on the lips"-that we have bestowed upon them; but actual, practical, real, tangible, substantial comforts, apparent to the corporeal senses. And, still more, by it we have been given effective means of check and restraint, and, if need be, of coercion too, as to the governments of those nations who have become, and must continue to be, dependent upon the southern States of this confederacy for the supply of cotton wherewith to provide employment for millions of their working men, women, and children, and wherewith to obtain raiment for all classes—idle and laboring, rich and poor. The necessity for such supply, and the dependence upon the United States for it, is valuable surety for "the peace and good benaviour" of those governments towards this country, and towards all others, in "the peace of God;" and it is also some guaranty against outrage or oppression in their own household.

The true policy of this confederacy, dictated alike by interest and by duty, is to cultivate friendly relations with every other people. All that we enjoy we hold from the bounty of the great Ruler of nations, and to fulfil his allwise purposes. Those who suppose our high mission is inconsistent with the sacred precept, "on earth peace, good will towards men," are in error. Insults may be repelled, wrongs redressed, and justice executed, without violating this rule. Until the people of these confederated sovereignties cease to deserve the blessings of civil and religious freedom, the federal government cannot be transformed into a consolidated military republic, which may, when incited by lust of conquest, wield its mighty power to ravage, despoil, conquer, or subjugate other nations. An illustrious chief magistrate years since proclaimed that "a fixed determination to give no just cause of offence to other nations" was a cardinal rule in the administration of the federal government; and he also said that "with this determination to give no offence is associated a resolution, equally decided, to submit to none." Illiberality, displays of hostility, and officious intermeddling in our affairs, may engender ill feelings, and provoke to recrimination and retaliation, and cause collisions; but in their career to the consummation of the high destiny awaiting the American people, if they do not forfeit it by misconduct, they should rigidly adhere to the rule just quoted, and to the other injunction by the same high authority—to "ASK FOR NOTHING THAT IS NOT CLEARLY RIGHT, AND SUBMIT TO NOTHING THAT IS WRONG."

Statement of the value of cotton goods imported during the year ending June 30, 1852.

			MAN	MANUFACTURES OF COTTON IMPORTED.	OTTON IMPORTED	ċ		
Imported from—	Painted or colored.	White and uncolored.	Tambored or embroidered.	Velvets and hatters' plush.	Hosiery.	Thread and yarn, &c.	Other manu- factures of.	Total value.
Hanse Towns. Holand. Belgium England Sootland France Cuba British East Indies Other countries	\$259, 640 1, 263 39, 722 10, 062, 463 615, 800 553, 837 9, 150 4, 425 7, 006 11, 553, 306	\$21,511 59 4,144 1,965,452 111,112 374,558 374,568 580 580	\$94,824 \$01 1,370,540 62,441 224,713 517 1,754,803	\$1,843 285,733 318 11,009 275 299,178	\$1, 527, 277 3, 725 3, 725 3, 725 4, 573 4, 577 83, 019 408 2, 152, 340	\$2,008 850 800,466 81,406 1,572 931 607	\$26, 014 4 64 476, 140 228 60, 216 4 1, 813 564, 543	\$1,933,117 5,252 54,890 15,485,585 875,942 1,308,924 10,117 4,463 11,206

Statement of the value of cotton goods of foreign manufacture exported during the year ending June 30, 1852.

	FORE	IGN COTTON	GOODS EXPO	RTED.
Exported to—	Printed & colored.	White & uncolored.	All other.	Total value
Danish West Indies	\$2,748 4,210		\$550 225	\$3, 298 4, 435
England	26, 344	\$22,570	2, 430	51, 344
Scotland	12, 365	4 22,010	326	12, 691
British Honduras	95		0.00	95
British West Indies	12,513	736	3, 052	16, 301
British American colonies	23, 204	22, 418	5,686	51, 308
Canada	120, 383	108,711	37, 889	266, 983
France	750			750
Cuba	3, 176	812	15, 396	19, 384
Porto Rico	370			370
Hayti	29, 983		1,310	31, 293
Mexico	196, 535	223, 196	65, 095	484, 826
Central America	1,671	1, 222	786	3, 679
New Granada	1,003	1, 453	3, 936	6, 392
Venezuela	422			422
Brazil	4,783		460	5, 243
Chili	6,856	9, 950	172	16, 978
Peru		1,699		1,699
China		7, 146		7, 146
Africa			882	882
South seas and Pacific ocean	4,963	1, 302		6, 265
Total	452, 374	401, 215	138, 195	991, 784

Exports of raw cotton and domestic catton manufactures during the year ending June 30, 1852.

	RAW	кам соттом.—\$87,965,732	,732.	MAR	UFACTURES OF	MANUFACTURES OF COTTON\$7,672,151	,151.
Whither exported.	Sea Island.	Upland.	Value.	Printed or colored.	Uncolored.	Thread and yarn.	Other manufac- tures of.
Russia Sweden and Norway Gwedish West Indies	Pounds.	Pounds. 10, 475, 168 5, 939, 025	53	\$2,525	\$2,144		
Denmark Danish West Indies Hanse Towns.		37, 042 22, 138, 228	3,219	917	19, 923		\$1,882 300
Holland Dutch East Indies Dutch West Indies		10, 259, 042	::_	6, 117	126, 736 27, 491	\$330 88	
England England	9, 478, 465	726, 383, 118			3, 114		2,817
Scotand Ireland Cibrattar	63%, 411	13, 400, 334 953, 396 123, 803	1, 270, 502 73, 312 12, 168		47,776		383
British East Indies Cape of Good Hope	1	8	1	4,105	300, 382		93
Actional Colonians British West Indies Canada British American Colonies		14, 133 2, 449	1,264	1, 505 4, 473 114, 203 50, 372	2,373 14,866 189,716 142,977	20, 188 330	85 55 88 80 75 88
Australia France on the Atlantic France on the Mediterranean French West Indies Spain on the Atlantic Spain on the Mediterranean	1, 429, 268 537, 925	175, 199, 818 9, 047, 259 1, 922, 207 27, 379, 721	14, 562, 091 876, 495 158, 099 2, 412, 096	1, 393 275 523	6,583 644 219 11,467 470		318

Cuba Other Spanish West Indies Portugal					1			
est Indies		294, 853	22, 544	4,725	10,095	9,369	12, 670	
Amorton		98, 235	9.340	10, 483	6, 462 153		3 5	
CAULUS				88	1,618			
					3, 483			
		12, 365, 445	955, 851	430	1, 138			
1		5, 568, 823	416,982	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	¥1%		* * * * * * * * * * * * * * * * * * * *	
r Austrian ports		23, 948, 434	1, 909, 717		180			
Turkey, Levant, &c					118, 762			
Hayti					205, 103		. 28	
Mexico		6, 700, 091	551,942		94,536	131	14, 701	
of America			1		41,309		6,748	
					19,781	125	8,628	
					141, 578		9, 254	_
					395, 550		85, 277	_
olic				1,676	1,016	134	20, 621	
olic		***********			109,350		2,304	
Chili		18,000	1, 175		1,092,293		149, 035	-
Bolivia				_	180,000			-
Peru				6, 455	27, 215		165, 313	
				:	2, 201, 496			_
South America generally								
Asia generally				080	11,814			
				329, 066	231,828		6, 985	
South Seas and Pacific Ocean				17, 099	56, 791	202	294	
Total	11, 738, 075	1, 081, 492, 564	87, 965, 732	926, 404	6, 139, 391	34,718	571, 638	

S. Doc. 112:

Specification of exports of foreign cotton manufactures.

Years.	Dyed and colored.	White.	Hosiery, mits, &c.	Twist, yarn, and thread.	China nankeens.	All other, velvets, &c.	Total exported.
1821 1822 1823 1824 1825 1826 1827 1828 1830 1831 1832 1833 1834 1835 1836 1837 1838 1839 1840 1841 1842 1843* 1844 1845 1846 1847 1848	\$379, 701 572, 626 1, 206, 502 1, 544, 231 1, 105, 252 1, 032, 381 964, 904 1, 402, 103 751, 871 995, 028 1, 746, 442 1, 352, 286 1, 818, 578 2, 308, 636 1, 975, 156 2, 103, 527 826, 111 945, 636 838, 553 574, 503 502, 072 251, 808 278, 434 281, 775 290, 282 372, 877 640, 919 424, 941 424, 941 274, 559	\$320, 302 341, 371 520, 506 608, 068 705, 339 682, 407 495, 188 406, 623 302, 435 475, 171 973, 774 782, 356 710, 193 788, 031 1, 193, 391 3666, 871 352, 591 246, 312 233, 927 183, 468 127, 228 110, 069 33, 998 90, 381 162, 599 357, 047 83, 715 487, 456 81, 690 44, 724	\$46, 311 74, 462 46, 788 44, 988 42, 222 57, 104 57, 015 62, 775 45, 937 43, 649 31, 969 41, 360 14, 746 12, 916 13, 632 15, 943 4, 429 4, 881 4, 325 2, 455 1, 780 20, 272 10, 425 22, 943	\$6, 532 8, 817 24, 767 8, 474 9, 412 34, 862 63, 413 46, 736 27, 656 58, 325 70, 254 29, 026 61, 41, 229 66, 403 87, 089 78, 176 86, 756 29, 768 34, 082 53, 020 198, 996 208, 193 15, 028 24, 958 10, 922 8, 482 3, 808 40, 783 7, 718 21, 023	\$874, 608 741, 882 865, 518 321, 204 443, 271 336, 295 230, 448 324, 274 397, 033 348, 526 237, 330 185, 945 112, 718 105, 477 55, 201 16, 456 624, 874 25, 380 16, 246 5, 630 4, 404	\$94, 870 65, 683 38, 073 18, 015 43, 723 55, 310 144, 043 167, 573 149, 155 48, 716 19, 526 12, 328 74, 310 11, 189 12, 458 9, 176 7, 982 2, 901 6, 550 44, 802 25, 735 26, 742 46, 308 63, 858	\$1,581,143 1,664,696 2,617,293 2,481,977 2,404,455 2,226,090 1,838,814 2,242,739 1,564,940 1,989,464 3,228,858 2,322,087 2,504,518 2,866,854 3,697,837 2,765,676 2,683,418 1,153,506 1,255,265 1,103,489 922,056 836,892 308,616 404,648 502,533 673,203 486,135 1,216,172 571,082 427,107
1851 1852	440, 441 452, 374	132, 020 401, 215	25, 923	20, 546		59, 010 138, 195	677, 940 991, 784

^{*} Nine months.

Domestic manufactures of cotton exported from the United States.

Years.	Printed and colored.	White.	Twist, yarn, &c.	Nankeens.	Not specified.	Total.
1826	\$68,884	\$821,629	\$11, 135	\$8,903	\$227,574	\$1, 138, 12
1827	45, 120	951,001	11, 175	14,750	137, 368	1, 159, 414
1828	76,012	887, 62 8	12,570	5, 149	28,873	1,010,239
1829	145, 024	981, 370	3,849	1,878	127, 336	1, 259, 45
1830	61,800	964, 196	24,744	1,093	266, 350	1, 318, 183
1831	96, 931	947, 932	17, 221	2, 397	61,832	1, 126, 313
1832	104, 870	1,052,891	12,618	341	58,854	1, 229, 574
1833	421,721	1, 802, 116	104, 335	2,054	202, 291	2, 532, 513
1834	188, 619	1, 756, 136	88, 376	1,061	51,802	2, 085, 99
1835	397, 412	2, 355, 202	97,808	400	7,859	2, 858, 68
1836	256, 625	1, 950, 795	32,765	637	14,912	2, 255, 73
1837	549,801	2, 043, 115	61,702	1,815	175, 040	2, 831, 47
1838	252, 044	3, 250, 130	168, 021	6,017	82,543	3,758,75
1839	412, 661	2, 525, 301	17, 465	1,492	18, 114	2, 975, 03
1840	398, 977	2,925,257	31, 445	1,200	192,728	3, 549, 60
1841	450, 503	2, 324, 839	43,503		303, 701	3, 122, 54
1842	385, 040	2, 297, 964	37, 325		2 50, 301	2, 970, 69
1843*	358, 415	2, 575, 049	57, 312		232,774	3, 223, 55
1844	385, 403	2, 298, 800	44, 421		170, 156	2, 898, 87
1845	516, 243	2, 343, 104	14, 379	1, 174, 038	280, 164	4, 327, 92
1846	380, 549	1, 978, 331	81,813	848, 989	255, 799	3, 545, 48
1847	281, 320	3, 345, 902	108, 132	8,794	338, 375	4, 082, 52
1848	351, 169	4, 866, 559	170,633	2, 365	327, 479	5,718,20
1849	466, 574	3, 955, 117	92, 555	3, 203	415, 680	4, 933, 12
1850	606, 631	3, 774, 407	• 17, 405		335, 981	4,734,42
1851	1,006,561	5, 571, 576	37, 260		625,808	7, 241, 20
1852	926, 404	6, 139, 391	34,718	`	571,638	7, 672, 15

^{*} Nine months.

[:] Note.—Previous to 1826 the published Treasury statements do not specify these exports as above.

S. Doc 112.

Values of certain domestic products exported, and total value

Years.	Cotton.	Tobacco.	Rice.	Flour.	Pork, hogs, lard, &c.	Beef, cathle, hides, &c.
1821	\$20, 157, 484	\$ 5,648,962	\$1,494,307	\$4,298,043	\$1,354,116	\$ 698, 323
1822	24, 035, 058	6, 222, 838	1,563,482	5, 103, 280	1, 357, 899	844, 534
1823	20, 445, 520	6, 282, 672	1,820,985	4, 962, 373	1, 291, 322	739, 461
1824	21,947,401	4, 855, 566	1,882,982	5, 759, 176	1, 489, 051	707, 299
1825	36, 846, 649	6, 115, 623	1,925,245	4, 212, 127	1,832,679	930, 465
1826	25, 025, 214	5, 347, 208	1, 917, 445	4, 121, 466	1, 892, 429	733, 430
1827	29, 359, 545	6, 816, 146	2, 343, 908	4, 434, 881	1,555,698	772, 636
1828	22, 487, 229	5, 480, 707	2, 620, 696	4, 283, 669	1, 495, 830	719, 961
1829	26, 575, 311	5, 185, 370	2,514,370	- 5,000,023	1, 493, 629	674, 955
1830	29, 674, 883	5, 833, 112	1,986,824	6, 132, 129	1, 315, 245	717, 683
1831	25, 289, 492	4, 892, 388	2, 016, 267	10, 461, 728	1,501,644	829, 982
1832	31, 724, 682	5, 999, 769	2, 152, 361	4, 974, 121	1, 928, 196	774, 087
1833	36, 191, 105	5,755,968	2,774,418	5,642,602	2, 151, 588	955, 076
1834	49, 448, 402	6, 595, 305	2, 122, 292	4,560,379	1,796,001	755, 219
1835	64, 961, 302	8, 250, 577	2, 210, 331	4, 394, 777	1,776,732	638, 761
1836	71, 284, 925	10, 058, 640	2, 548, 750	3, 572, 599	1, 383, 344	699, 166
1837	63, 240, 102	5, 795, 647	2, 309, 279	2, 987, 269	1, 299, 796	585, 146
1838	61, 556, 811	7, 392, 029	1,721,819	3, 603, 299	1, 312, 346	528, 231
1839	61, 238, 982	9, 832, 943	2, 460, 198	6, 925, 170	1,777,230	371,646
1840	63, 870, 307	9, 883, 957	1,942,076	10, 143, 615	1,894,894	623, 373
1841	54, 330, 341	12, 576, 703	2,010,107	7, 759, 646	2, 621, 537	904, 918
1842	47, 593, 464	9,540,755	1,907,387	7, 375, 356	2, 629, 403	1, 212, 638
1843*	49, 119, 806	4, 650, 979	1, 625, 726	3,763,075	2, 120, 020	1, 092, 949
1844	54, 063, 501	8, 397, 255	2, 182, 468	6, 759, 488	3, 236, 479	1,850,551
1845	51, 739, 643	7, 469, 819	2, 160, 456	5, 398, 593	2, 991, 284	1, 926, 809
1846	42, 767, 341	8, 478, 270	2, 564, 991	11,668,669	3, 883, 884	2, 474, 208
1847	53, 415, 848	7, 242, 086	3, 605, 896	26, 133, 811	6, 630, 842	2, 434, 082
1848	61, 998, 294	7, 551, 122	2, 331, 824	13, 194, 109	9, 003, 272	1, 905, 341
1849	66, 396, 967	5, 804, 207	2, 569, 362	11, 280, 582	9, 245, 885	2,058,958
1850	71, 984, 616	9, 951, 023	2, 631, 557	7, 098, 570	7,550,287	1,605,608
1851	112, 315, 317	9, 219, 251	2, 170, 927	10, 524, 331	4, 368, 015	1, 689, 958
1852	87, 965, 732	10, 031, 282	2, 471, 079	11,869 143	3, 765, 470	1,500,479

^{*} Nine months.

of domestic products exported, including bullion and specie.

Butter: and cheese.	Skins and furs.	Fish.	Lumber.	Manufactures.	Total domestic exports.
\$190, 287	\$ 766, 205	\$973,591	\$1,512,808	\$2,752,631	\$43,671,894
221,041	501, 302	915, 838	1, 307, 670	3, 121, 030	49, 874, 079
192,778	672, 917	1,004,800	1, 335, 600	3, 139, 598	47, 155, 408
204, 205	661, 455	1, 136, 704	1,734,586	4,841,383	53, 649, 500
247, 787	524, 692	1,078,773	1,717,571	5, 729, 797	66, 944, 745
207,765	582, 473	924, 922	2,011,694	5, 495, 130	53, 055, 710
184, 049	441,690	987, 447	1,697,170	5, 536, 651	58, 921, 691
176, 354	626, 235	1,066,663	1,821,906	5, 548, 354	50, 669, 669
176, 205	526,507	968, 068	1,680,403	5, 412, 320	55, 700, 193
142, 370	641,760	756, 677	1, 836, 014	5, 320, 980	59, 462, 029
264,7 96	750,938	929, 834	1,964,195	5, 086, 890	61, 277, 057
290, 820	691, 909	1,056,721	2,096,707	5,050,633	63, 137, 470
2 58, 452	841, 933	990, 290	2, 569, 493	6, 557, 080	70, 317, 698
190,099	797,844	863, 674	2, 435, 314	6, 247, 893	81, 024, 162
164, 809	759, 953	1,008,534	3, 323, 057	7,694,073	101, 189, 082
114,033	653 662	967,890	2,860,691	6, 107, 528	106, 916, 680
96, 176	651,908	769, 840	3, 155, 990	7, 136, 997	95, 564, 414
148, 191	636, 945	819,003	3, 166, 196	8, 397, 078	96, 033, 821
127,550	732, 087	850, 538	3,604,399	8, 325, 082	103, 533, 891
2 10, 749	1, 237, 789	720, 164	2, 926, 846	9, 873, 462	113, 895, 634
504, 815	993, 262	751, 783	3, 576, 805	9,953,020	106, 382, 722
388, 185	598, 487	730, 106	3, 230, 003	8, 410, 694	92, 969, 996
5 08, 968	453, 869	497, 217	1,687,809	6,779,527	77, 703, 783
7 58, 829	742, 196	897, 015	3, 011, 968	9, 579, 724	99, 715, 967
878, 865	1, 248, 355	1,012,007	3, 099, 455	10, 329, 701	99, 299, 776
1,063,087	1,063,009	930, 054	3,685,276	10, 525, 064	102, 141, 893
1,741,770	747, 145	795, 850	3, 807, 241	10, 351, 364	150, 637, 464
1, 361, 668	607, 780	718, 797	5, 069, 877	12, 786, 732	132, 904, 121
1,654,157	656, 228	512, 177	3, 718, 033	11, 249, 877	132, 666, 555
1, 215, 463	852, 466	456, 804	4,751,538	15, 196, 451	136, 946, 912
1, 124, 652	977, 762	481,661	5, 055, 778	18, 136, 967	196, 689, 718
779, 391	798, 504	453, 010	5, 246, 797	18, 042, 930	192, 368, 984

S. Doc. 112.

Foreign cotton manufactures imported,

Years.	Dyed and colored.	White.	Hosiery, mits, &c.	Twist, yarn, and thread.
1821	\$4, 366, 407	\$ 2,511,405	\$198, 783	\$ 151, 138
1822	5, 856, 763	2, 951, 627	433, 309	181, 843
1823	4, 899, 499	2, 636, 813	314,606	103, 259
824	5,776,210	2, 354, 540	387, 514	140, 069
1825	7,709,830	3, 326, 208	545, 915	201, 549
826	5, 056, 725	2, 260, 024	404, 870	175, 143
827	5, 316, 546	2, 584, 994	439, 773	263,772
828	6, 133, 844	2, 451, 316	640, 360	344, 040
829	4, 404, 078	2, 242, 805	586, 997	173, 120
830	4, 356, 675	2, 487, 804	387, 454	172, 785
831	10, 046, 500	4, 285, 175	887, 957	393, 414
832	6, 355, 475	2, 258, 672	1, 035, 513	316, 122
833	5, 181, 647	1, 181, 512	623, 369	343, 059
834	6,668,823	1,766,482	749, 356	379, 793
1835	10, 610, 722	2,738,493	906, 369	544, 473
1836	12, 192, 980	2,766,787	1, 358, 608	555, 290
1837	7, 087, 270	1,611,398	1, 267, 267	404, 603
838	4, 217, 551	980, 142	767, 856	222, 114
839.`	9, 216, 000	2, 154, 931	1,879,783	779,004
840	3, 893, 694	917, 101	792, 078	387, 095
1841	7, 434, 727	1, 573, 505	980, 639	863, 130
1842	6, 168, 544	1,285,894	1,027,621	457, 917
1843*	1,739,318	393, 105	307, 243	26, 227
844	8,894,219	1,670,769	1, 121, 460	637, 006
1845	8, 572, 546	1,823,451	1, 326, 631	566, 769
1846	8, 755, 392	1,597,120	1, 308, 202	656, 571
1847	10, 023, 418	2,630,979	1, 173, 824	511, 136
1848	12, 490, 501	2,487,256	1, 383, 871	727, 422
849	10, 286, 894	1, 438, 635	1, 315, 783	770, 509
850	13, 640, 291	1,773,302	1, 558, 173	799, 156
851	14, 449, 421	1, 499, 044	2, 117, 899	980, 839
1852	11, 553, 306	2, 477, 486	2, 152, 340	887, 840

^{*} Nine months. Previous to 1821 these returns are not fully specified in detail.

and the total exported, consumed, &c.

China nankeens.	All others, velvets, &cc.	Total imported.	Total exported.	Consumed in the United States.
\$361,978	******	\$7, 589, 711	\$ 1,581,143	\$6,008,568
823, 365		10, 246, 907	1,664,696	8, 582, 21
600,700		8, 554, 877	2,617,293	5, 937, 58
188,633	\$48,791	8, 895, 757	2, 481, 977	6, 413, 78
35 0, 24 3	375, 771	12, 509, 516	2, 404, 455	10, 105, 06
304, 980	146, 292	8, 348, 034	2, 226, 090	6, 121, 94
256, 221	454, 847	9, 316, 153	1, 838, 814	7, 477, 33
388, 231	1,038,479	10, 996, 270	2, 242, 739	8,753,53
542, 179	412,838	8, 362, 017	1,564,940	6,797,07
228 , 233	229, 375	7, 862, 326	1, 989, 464	5, 872, 86
114,076	363, 102	16, 090, 224	3, 228, 858	12, 861, 36
120,629	313, 242	10, 399, 653	2, 322, 087	8, 077, 56
37,001	293, 861	7, 660, 449	2,504,518	5, 155, 93
47, 337	533, 390	10, 145, 181	2,866,854	7, 278, 32
9,021	558, 507	15, 367, 585	3, 697, 837	11, 669, 74
28, 348	974, 074	17, 876, 087	2,765,676	15, 110, 41
35, 990	744, 313	11, 150, 841	2, 683, 418	8, 467, 42
27,049	384, 618	6, 599, 330	1, 153, 506	5, 445, 82
3,772	874, 691	14, 908, 181	1,255,265	13, 652, 91
1, 102	513, 414	6, 504, 484	1, 103, 489	5, 400, 99
217	904, 818	11,757,036	929, 056	10, 827, 98
53	638, 486	9, 578, 515	836, 892	8,741,62
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	492, 903	2, 958, 796	308, 616	2,650,18
	1, 318, 024	13, 641, 478	404, 648	13, 236, 83
	1, 574, 885	13, 863, 282	502, 553	13, 360, 72
	1, 213, 340	13, 350, 625	673, 203	12, 677, 42
	853, 518	15, 192, 875	486, 135	14, 706, 74
	1, 332, 539	18, 421, 589	1, 216, 172	17, 205, 41
	1, 943, 020	15, 754, 841	571, 082	15, 183, 75
	2, 337, 797	20, 108, 719	427, 107	19, 681, 61
	3, 117, 239	22, 164, 442	677, 940	21, 486, 50
	2,053,981	19, 689, 496	991, 784	18, 697, 71

S. Dac. 112.

Bullion and specie imported into and exported from the United States. .

Years ending—	Imported.	Exported.	Import'n over	Export'n over importation
September 30 1821	AD OCA 000	A10 470 070		\$2, 413, 169
1822	\$8,064,890	\$10, 478, 059		7, 440, 334
1823	3, 369, 846	10, 810, 180		1, 275, 091
	5, 097, 896	6, 372, 987	A1 965 999	
1824	8, 379, 835	7, 014, 552	\$ 1, 365, 283	0.646.000
1825	6, 150, 765	8, 797, 055	A 180 400	2, 646, 290
1826	6, 880, 966	4,704,533	2, 176, 433	
1827	8, 151, 130	8, 014, 880	136, 250	**************
1828	7, 489, 741	8, 243, 476		753, 735
1829	7, 403, 612	4, 924, 020	2, 479, 592	
1830	8, 155, 964	2, 178, 773	5, 977, 191	
1831	7, 305, 945	9, 014, 931		1,708,986
1832	5, 907, 504	5, 656, 340	251, 164	
1833	7,070,368	2,611,701	4, 458, 667	
1834	17, 911, 632	2,076,758	15, 834, 874	
1835	13, 131, 447	6, 477, 775	6,653,672	
1836	13, 400, 881	4, 324, 336	9, 076, 545	
1837	10, 516, 414	5, 976, 249	4, 540, 165	
1838	17,747,116	3, 508, 046	14, 239, 070	
1839	5, 595, 176	8,776,743		3, 181, 567
1840	8, 882, 813	8, 417, 014	465, 799	
1841	4, 988, 633	10,034,332		5, 045, 699
1842	4, 087, 016	4, 813, 539		726, 523
9 months to June 30, 1843	22, 320, 335	1,520,791	20, 799, 544	
Year to June 30 1844	5, 830, 429	5, 454, 214	376, 215	
1845	4,070,242	8,606,495		4, 536, 253
1846	3,777,732	3, 905, 268		127,536
1847	24, 121, 289	1,907,739	22, 213, 550	
1848	6, 360, 224	15, 841, 620	,,	. 9, 481, 396
1849	6, 651, 240	5, 404, 648	1, 246, 592	
1850	4, 628, 792	7,522,994	1,020,000	2,894,202
1851	5, 453, 981	29, 465, 752		24, 011, 771
1852	5, 503, 544	42, 674, 135		37, 170, 591
2000	5,555,511	12, 5, 1, 100		
Total	274, 407, 398	265, 529, 935	112, 290, 606	103, 413, 143

The total difference since 1821 is \$8,877,463 excess of importation over exportation? Prior to 1851, the same difference was \$70,059,825.

STATEMENTS OF THE COMMERCE OF THE ATLANTIC STATES AND CITIES.

It has been thought proper to place on record, under this head, a few general statements illustrative of the commerce and navigation of our principal Atlantic ports with foreign countries, in a convenient form for comparison with the aggregate of the United States, the internal commerce and navigation of this confederacy, and with that of any or all foreign countries in the world. To this end, some statements relating to the aggregate commerce and tonnage of the United States are also appended. These statements are of an entirely reliable character, most of them having been derived from official sources.

It was under contemplation to prepare specific notices of each of the more prominent of the commercial cities of the seaboard for this portion of the report; but, upon application being made at the several points for the requisite statistics, and the discovery of the entire absence of such accounts as might form a proper basis on which to calculate the value of the coasting and inland or domestic trade centring at the

several ports, it has been judged best not to make the attempt.

The trade of New York, Boston, and New Orleans receives a larger quota from the interior than any other cities of the seaboard. owing to the fact of their better natural and artificial communication with that region lying between the Alleghany and Rocky ridges. communication of the rest of the Atlantic cities with the interior country has been chiefly, hitherto, with that portion lying east and south of the Alleghany ridge, and by means of railways and navigable rivers. It will be seen that by far the largest foreign trade is enjoyed by New York—the next in value of importations being Boston; and in value of exportations, New Orleans. The foreign exports of Philadelphia and Baltimore are made up principally of domestic manufactures, for the producing of which they possess facilities seldom surpassed, and of the agricultural productions of the States of which they are respectively the commercial capitals, and of Virginia, or rather those portions of these several States lying east of the Alleghanies. Their importations are chiefly limited to the more bulky and cheaper of such foreign fabrics, or materials and productions, as incur the least risk, and as are most wanted by those classes for whom they export—the richer and finer articles, to which greater risk is attached, being generally purchased of manufacturers' agents, at the larger importing cities.

The southern cities have a large foreign and coastwise export trade, for the reason that the labor in that portion of the country is principally confined to the production of those articles for which there is not a full home demand. The people of South Carolina, for example, are chiefly devoted to the production of cotton and rice, and the exports from Charleston are principally made up of these articles. The same may be said of Georgia, with respect to cotton more particularly, and the exports from Savannah. Both of these ports have excellent harbors, of easy entrance, and the trade of Savannah is rapidly increasing. Just below the city some obstructions exist in the Savannah river, caused by the sinking of vessels during the war of 1812 and '15 to prevent the British from reaching and destroying the city. These are about being removed, and, when their removal is accomplished, vessels

of heavy draught can proceed safely to the wharves at the city. These southern cities import largely of northern manufactures. A statement fairly exhibiting the movement of merchandise coastwise would show a domestic importation into the southern cities having a much nearer ratio than the foreign importations to their export trade. While a greater portion of the cotton of the southern States is exported from their own ports directly to Europe, the returns, either in money or merchandise, are received principally through New York—which explains satisfactorily the excess of imports over the exports of that city.

The cities of Baltimore, Charleston, and Savannah maintain their communications with the interior principally by railway; and Mobile by the Mobile river and its tributaries. These, like the northern cities, are pushing lines of railway into the heart of the country. The results which are to follow the construction of such works remain to be seen: and it is a question worthy of grave consideration whether these routes are not calculated to effect remarkable changes in the direction of our interior commerce, which, up to the present time, has of necessity been confined to few; and whether an apparent monopoly which has been enjoyed by two or three cities is not to become, when commerce shall be liberated from the channels of necessity, the common property of all. In any event, there can be no question as to the good effect which the works referred to will have upon the business of the ports where they terminate. By opening a market to extensive tracts of country previously inaccessible, the producing area must be largely increased; and the productions will naturally follow these railways to a market or place of shipment.

Note.—The city of Savannah has also the fine river of the same name, which divides Georgia from South Carolina, navigable by steamboats nearly 200 miles westwardly; and Charleston has tributary to it the rivers Ashley and Cooper, which are both capacious, and unite just below the city, forming Charleston harbor. The latter of these rivers is connected by canal with the Santee river, by which means steam navigation is opened from Charleston to Columbia.

Statement exhibiting the value of exports from and imports into the ports of Boston and New York, annually, from 1884 to 1861,

		BOSTON	ON.			NEW YORK,	ORK.	
Year ending-		Value of exports.				Value of exports.		
	Domestic produce, &c.	Foreign mer- chandise.	Total	Value of imports,	Domestic pro- duce, &c.e.	Foreign met- chandise.	Total	Value of intports.
September 30, 1834	\$3, 663, 777 4, 592, 838 4, 115, 497 3, 784, 995 784, 995 4, 729, 818 4, 705, 248 5, 973, 994 5, 161, 962 7, 488, 914 6, 576, 248 6, 576, 248 6, 576, 248 6, 576, 248 7, 659, 615	\$5, 320, 834 4, 821, 126 4, 600, 833 4, 231, 864 8, 205, 089 3, 527, 144 3, 467, 192 2, 309, 974 2, 349, 433 4, 550 1, 677, 148 2, 347, 590 2, 347, 590 2, 388, 338	\$8,984,611 9,413,964 8,716,330 7,400,999 7,500,664 8,232,386 9,441,186 7,502,469 7,502,469 7,502,469	\$16,075,589 18,174,255 24,248,727 17,949,146 12,355,131 17,967,754 14,896,967 15,796,600 15,796,448 21,230,381	\$12, 180, 916 19, 496, 661 18, 600, 599 14, 413, 693 15, 220, 056 22, 073, 924 20, 900, 300 22, 099, 856 18, 889, 062 18, 881, 140 23, 861, 790 24, 012, 654 27, 253, 599	\$11, 661, 820 9, 954, 531 9, 964, 531 11, 045, 934 6, 434, 709 9, 872, 550 11, 508, 938 8, 692, 934 6, 578, 254 3, 290, 944 5, 861, 013 9, 542, 122 6, 392, 407	\$23, 842, 736 \$24, 451, 192 \$7, 668, 159 \$5, 459, 627 \$1, 654, 765 \$1, 946, 474 \$2, 408, 789, 780 \$25, 467, 316 \$25, 722, 803 \$33, 554, 776 \$33, 554, 776	\$72, 724, 210 87, 734, 844 117, 734, 844 117, 700, 917 78, 543, 706 68, 159, 360 99, 483, 414 60, 664, 942 75, 358, 283 77, 358, 283 57, 446, 081 31, 112, 227 64, 528, 188 69, 897, 405 73, 531, 183, 227
1848 1849 1850 1851		2, 228, 508	9, 060, 651 12, 204, 462 8, 692, 008 9, 141, 652 10, 498, 180	23, 273, 145 23, 277 23, 275, 963 28, 656, 163 30, 508, 139	43, 042, 491 36, 644, 930 35, 083, 810 37, 633, 344 63, 723, 329	3,544,144 13,097,308 7,704,427 9,947,013 16,133,986	5,5,8,8,5,7	83, 075, 236 92, 947, 176 91, 374, 584 116, 667, 559 144, 454, 016

Statement exhibiting the value of exports from and imports into the ports of Philadelphia and Baltimore, annually, from 1834 to 1851, inclusive.

•	Value of im-	ports,	\$4, 647, 167 5, 647, 153 7, 131, 563 7, 131, 563 6, 995, 285 6, 995, 285 4, 416, 138 9, 479, 138 3, 917, 730 3, 917, 730 4, 432, 314 4, 432, 314 5, 343, 643, 6, 124, 201 6, 124, 201
ORE.		Total,	\$4, 165, 995 3, 923, 859 3, 393, 444 3, 789, 917 4, 524, 575 5, 768, 768 4, 901, 238 3, 008, 894 5, 216, 989 6, 869, 055 7, 129, 461 7, 129, 461 7, 999, 857 6, 635, 786 5, 635, 786
BALTIMORE	Value of exports.	Foreign mer- chandise,	\$1, 155, 537 778, 368 368, 368 369, 407 259, 407 268, 372 273, 748 1158, 006 265, 731 1195, 342 275, 740 119, 557 113, 427 213, 965 377, 872 218, 968
		Domestic produce, &c.	\$3, 010, 458 3, 175, 491 3, 365, 1754 4, 165, 168 4, 165, 168 5, 495, 020 4, 635, 507 8, 813, 552 4, 835, 500 4, 835, 200 4, 835, 200 6, 744, 119 9, 630, 900 7, 716, 034 7, 785, 892 6, 566, 743 5, 416, 798
	Value of im-	ports.	\$10, 479, 268 15, 068, 233 11, 680, 011 9, 323, 640 15, 037, 420 8, 464, 882 10, 342, 206 7, 381, 770 2, 755, 958 7, 217, 238 8, 156, 446 7, 989, 393 9, 586, 126 12, 147, 000 12, 065, 834 14, 168, 618
PIIILADELPHIA,		Total.	\$3, 989, 746 4, 176, 290 3, 677, 607 3, 841, 599 3, 477, 151 5, 299, 415 6, 820, 145 5, 152, 501 3, 753, 894 2, 354, 948 3, 574, 363 4, 751, 005 6, 732, 333 5, 732, 333 5, 732, 333 5, 732, 333 5, 356, 036 6, 356, 036 6, 356, 036 6, 356, 036
PIIILAD	Value of exports.	Foreign mer- chandise.	\$1,957,943 1,760,191 1,049,956 1,275,857 995,608 1,151,204 1,083,689 747,638 460,080 283,003 270,229 444,685 593,087 277,856 893,087 277,856 893,087 277,856 893,087 277,856 893,087 277,856 893,087 277,856 893,087 277,856 893,087 277,856 893,087 277,856 893,087 277,856 893,087 277,856 893,087 277,856 893,087 277,856 893,087 877,856 893,087 877,856 8
		Domestic produce, &c.	\$\$, 416, 099 8, 426, 099 8, 682, 651 8, 481, 548 4, 146, 211 5, 736, 456 4, 404, 863 8, 296, 814 8, 296, 719 9, 271, 945 8, 286, 814 8, 286, 311 8, 286, 311 8, 286, 311 8, 486, 309 4, 881, 872 4, 046, 464 5, 101, 969
	Years ending-		September 30 1834

Statement exhibiting the value of exports from and imports into the part of Charleston, annually, from 1834 to 1851, inclusive—direct trade.

	·	alue of export	8.	
Years ending—	Domestic produce, &c.	Foreign mer- chandise.	Total.	Value of imports.
Sept. 30, 1834		\$88, 213	\$11, 207, 77 8	\$1,787,267
1835	,	113,718	11, 338, 016	1, 891, 808
1836		201, 619	13, 684, 376	2, 801, 21
1837		81, 169	11, 216, 792	2, 510, 86
1838		24,679	11, 032, 120	2, 318, 79
1839		66,604	10, 367, 731	3, 084, 32
1840	9, 956, 163	55, 753	10, 011, 916	2, 058, 56
1841	7,970,899	31,892	8,002,791	1, 553, 71
1842	7,477,340	17, 324	7, 494, 664	1, 357, 61
1843	7,733,780	6,657	7,740,437	1, 294, 38
1844	7, 393, 134	3,697	7, 396, 831	1, 131, 12
1845	. 8, 856, 471	5,878	8, 862, 349	1, 142, 81
1846	6, 804, 313	18,942	6, 823, 255	902, 42
1847		3, 371	10, 392, 286	1,588,75
1848			8, 027, 485	1,481,23
1849		1, 301	9,673,907	1, 475, 69
1850		908	11, 420, 198	1, 933, 78
1851			15, 301, 648	2, 081, 31

It is a matter of great regret that the application for full statements of the trade and commerce of the flourishing city of Savannah was not received in time for this report.

Statement of the receipts into the treasury on account of duties collected at the ports of Boston, New York, Philadelphia, and Baltimore, from 1835 to the 30th of June, 1852, inclusive.

Years,	Boston.	New York.	Philadelphia.	Baltimore.
835	\$2,612,486 10	\$11,597,466 90	\$2, 159, 111 30	\$666, 937
836	2,236,041 22	13, 424, 717 87	2, 637, 796 28	1, 127, 989
837	1, 328, 863 67	6,679,756 05	1, 162, 610 66	704, 247
838	2, 239, 554 67	8,941,208 80	1,882,613 06	1, 111, 741
839	2, 162, 055 37	14, 475, 995 91	2, 326, 384 71	1, 166, 548
840	1,820,173 98	7, 167, 968 53	1,553,373 07	700, 315
841	2, 307, 848 68	8,418,588 60	1, 367, 259 08	616,025
842	2,789,798 72	11, 273, 499 91	1,659,125 67	610,880
843	1, 311, 225 52	4, 072, 296 44	559, 649 65	228, 367
844	4, 411, 372 36	16, 792, 679 41	2,255,860 77	603, 574
845	4, 676, 157 45	17, 255, 308 60	2, 361, 325 72	696,724
846	4, 844, 129 75	16, 975, 972 34	2, 136, 754 70	674, 548
847	4,098,226 24	15,524,014 27	1,978,430 99	600, 497
848	5,033,772 14	20, 128, 726 89	2, 979, 931 31	771,708
849	4, 380, 346 89	18, 377, 814 24	2, 329, 553 66	649, 402
850	6, 177, 970 64	24, 952, 977 02	3, 122, 660 40	1,004,961
851	6,520,973 85	31,754,964 26	3, 783, 787 32	1,047,278
852	6, 250, 588 68	28,772,558 75	3,715,126 21	1,063,530

Statement exhibiting the number of American and foreign vessels, and also their tonnage, employed in foreign trade in the district of Boston, which entered and cleared, annually, from 1826 to 1851, inclusive.

Year.		AMERICAN	VESSELS.			FOREIGN VESSEBS.	VESSEBS.			TOTAL	AL.	
cc	En	Entered.	Cle	Cleared.	En	Entered.	C	Cleared.	En	Entered.	Cle	Cleared.
988	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.
		194 064		00				0447		190		000
327		118 604	:	89, 703 85, 450	:		:	4, 579 3, 051	:	139, 609	:	202, 202
828		111,439		87,811		5,595		4.819		117, 034		92, 630
	:	117,608		88, 593		4,827		3,825		122, 435		92,418
1830	:	108,665		88, 232	:	4,663		5, 176	:	113, 328		93, 408
[83]	:	116,762	: : : : : : : : : : : : : : : : : : : :	94, 708	:	9,612		7,403	:	126, 374		102, 111
	:	136, 360	:	125,751	:	21,442	:	22, 427	:	157,811	:	148, 178
		149, 550	:	130,012	:	29,013		27,813	:	178, 563		157, 825
	763	154, 941	674	127, 295	307	28, 144	314	29, 542	1,070	183, 085	886	156, 837
	754	158, 712	736	144,958	404	35, 708	415	36, 335	1, 158	194, 420	1,148	181, 293
	779	163,646	292	151,214	209	56, 038	591	53, 120	1,381	224,684	1, 358	204, 334
	20.1	188, 367	662	128, 486	691	53, 910	705	55,887	1,544	242, 277	1,367	184, 373
[747	161, 595	645	125,070	483	37, 303	498	38,644	1, 235	198,898	1,143	163, 714
	200	189, 126	775	153, 464	575	41,430	581	42, 210	1,440	230, 556	1, 356	195, 674
	0004	191, 752	099	128, 973	643	53, 581	693	52, 620	1,507	245, 333	1, 353	181, 593
	1,019	224, 969	855	166,710	711	66, 354	722	68, 133	1,730	291, 323	1,544	234, 843
	045 0 110 0 110	197, 481	713	146, 828	870	78,885	861	78, 588	1,719	276, 366	1,574	225, 416
	100	100, 515	470	96, 163		43,091	45/	44, 597		144,500	500	140,700
	600	199, 505	100	168, 047		89, 483	1,013	389, 116		200, 900		257, 103
	100	203, 401	197	103, 107		101, 491	1,248	103, 097		506, 952		200, 204
	010	209, 387	608	178,483		109,449		111,755		318, 836		290, 238
	906	218, 212	836	174, 173		107,214		107,701		325, 426		281,874
	1,098	269, 299	1,006	229,850		163,375		164,649		432, 674		394, 499
	200	248,069	831	214,518	2,053	203, 107	2, 035	* 199,882	2,940	451, 176	2,856	414, 400
Deel services	967	260, 550	668	215,801		218, 300		221,959		478,859		437, 760
1001	200	236, 900	828	207, 993		275, 317		286,069		512, 217		494,062

Statement exhibiting the number of American and foreign vessels, and also their tonnage, employed in foreign trade in the district of New York, which entered and cleared, annually, from 1826 to 1851, inclusive.

ń	Cleared.	Tons.	227, 857	262, 518	242, 967 933, 686	243, 155	276, 409	309, 390	333, 402	329, 085	366, 389	401,086	410,077	346, 499	446,839	408, 768	405, 033	451, 191	285, 481	498, 254	483, 525	553, 716	758, 745	788, 335	931, 509	982, 478	1,230,082
N.	Cle	No.		:					:	1,485																	
TOTAL	Entered.	Tons.	274, 461	287, 409	254, 979	305, 181	333, 678	400,485	420, 508	443, 697	465, 665	534, 538	579, 194	422, 497	563, 617	545, 931	547, 694	570,015	312, 214	576, 480	579,218	655, 877	853, 668	932, 493	1, 117, 800	1, 145, 331	1,448,768
	En	No.	,	:				:	:	1,950	8,00g	2,205	2, 222	1,625	2, 138	1,955	2, 098	1,987	1, 151	2, 123	2,008	2, 132	2,738	2,870	3,218	3, 163	3,647
	Cleared.	Tons.	19, 655	30, 090	40, 123 28, 343	32, 620	* 50, 688	90, 900	101,007	96, 151	77, 121	126,918	166, 111	78, 593	124, 206	125, 619	112, 458	151,241	63, 748	126, 286	142,431	157, 218	263, 236	297, 116	361, 798	385, 666	436,853
VESSELS.	Ci	No.		:			:			474	433	624	724	372	511	503	484	573	27.1	522	261	264	925	666	1, 140	1,230	1,427
FOREIGN VESSELS.	Entered.	Tons.	26, 285	35, 887	42, 319 26, 049	31, 391	55, 107	102, 358	106,099	101,067	91, 063	137, 632	187, 837	79, 597	135, 990	128, 488	124, 405	150,939	64,654	141,520	139, 542	161,882	310, 603	293, 188	406,080	410,900	491,889
	En	No.	:	:					:	485	480	099	814	372	529	513	528	563	526	261	558	564	1,048	946	1,239	1,281	1,579
	Cleared.	Tons.	208, 202	232, 428	202, 844	210,535	225, 721	218, 490	232, 395	232, 934	289, 268	274, 168	243, 966	267, 906	322, 633	283, 149	292, 575	299, 950	221, 733	371,968	341,094	396, 498	495, 509	491, 219	569, 711	596, 812	793, 229
VESSELS.	Cle	No.	:	:	:			:		1,011	1, 226	1,079	830	066	1, 169	1,067	1,081	1,027	801	1,289	1, 127	1, 237	1, 476	1,351	1,533	1,379	1,658
AMERICAN VESSELS.	Entered.	Tons.	248, 176	251, 522	242, 660	273, 790	278, 571	298, 127	314,409	342, 630	374, 602	396, 906	391, 357	342,900	427, 627	417, 443	423, 289	419,076	247, 590	434, 960	439, 676	493, 995	543, 065	639, 305	711, 720	734, 431	956, 879
	Ent	No.			:			:		1,465	1,528	1,545	1,408	1,253	1,579	1,443	1,570	1, 424	875	1,562	1,450	1,568	1,690	1,924	1, 979	1,882	2,068
	Years.		826	827	828	830	831	1832	1833	1834	1835	1836	837	1838	839	840	841	842	843	844	845	846	847	848	849	850	851

Statement exhibiting the number of American and foreign vessels, and also their tonnage, employed in foreign trade in the district of Philadelphia, which entered and cleared, annually, from 1826 to 1851, inclusive.

		AMERICAN VESSELS.	VESSELS.	,		FOREIGN VESSELS.	ESSELS.			TOTAL	AL.	
Years.	E E	Entered.	コ	Cleared.	Ē	Entered.	ซี	Cleared.	En	Entered.	Cle	Cleared.
	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.
1×26		81,538		69, 444		5, 496		4,445		87,034		73,889
1827		74,705		68, 753		4,007	:	4,097		78, 712		72,850
1828	:	80,	:	61,819		8, 320		5,880	-	88, 670	:	62, 699
1829	:	67,	:	52,841		6, 232	:	4,625	:	73, 454		57, 466
1830	-	72,	:	62, 959	:	5,007	:	4,870	:	77, 016	:	62,859
1831	:	71,	:	65, 149	:	3,826	:	7,596	:	80,058	:	72, 745
1632	:	64,	:	46, 726	:	17,671	:	14, 131	:	61,939	:	60,857
1834	332	64, 347	262	46, 411	109	19, 457	26	16, 236	441	83,804	35.9	69, 647
1835	348	68, 177	318	57,088	89	10,816	7.1	10,935	416	78, 993	388	68, 023
1836	329	69, 101	272	49,670	78	15, 383	78	14,349	407	84, 484	350	64,019
1837	346	72,684	244	45,185	92	19, 031	88	18, 284	438	91,715	333	63, 469
1838	374	74,992	284	53,905	54	8, 131	53	8, 528	428	83, 123	337	62, 433
18:39	453	96, 887	333	64,318	78	14, 506	7.5	13, 381	531	111, 393	405	77,699
1840	353	75, 479	376	72, 288	91	12, 223	88	11,340	444	87, 702	459	83, 628
1841	428	88, 972	330	74, 201	20	10,098	65	9, 322	498	99,020	455	83, 523
1842	363	80, 297	358	65, 208	102	14, 257	86	13,712	465	94, 554	426	78, 920
1043	122	42, 419	241	41,573	55 E	5,525	34	9,099	ç.	47, 944	275	47, 472
1044	376	76, 791	394	70,650	7.1	12,738	66	8, 627	447	89, 529	453	79, 277
1845	343	77, 248	341	63, 271	77	14,065	63	12, 987	420	91, 313	404	76, 258
1846	346	78,843	377	77, 272	25	9, 202	47	7,627	398	88,048	424	84,899
1847	435	101, 376	430	107,930	186	38, 398	153	38, 213	621	139, 774	583	143, 143
1848	390	99, 772	342	77,870	134	20, 105	134	20, 218	524	119, 787	476	98, 088
1849	421	113,825	360	93, 322	185	28, 798	179	27,005	909	142,623	539	120, 327
1850	352	100,000	309	81,276	185	32, 361	170	30, 342	537	132, 370	479	111,618
1851	404	117, 377	357	102,123	177	42, 259	173	38, 051	189	159, 636	530	140, 174
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Statement exhibiting the number of American and foreign vessels, and also their tonnage, employed in foreign trade in the district of Baltimore, which entered and cleared, annually, from 1826 to 1851, inclusive.

						3	•	1	,	С	•	1	Ţ	Z	•													
	Cleared.	Tons.	64,026	70,768	64,954	61,138	58, 252	75, 148	64,581	72, 303	58,946	63,771	57,923	74,993	66, 701	68,854	93, 261	87, 186	82, 707	56,904	91,039	92, 058	119,291	169,930	120,930	149,810	126,819	105,789
ľ.	Clea	No.						:	:		311	345	323	371	359	400	461	445	394	292	457	450	533	899	543	633	521	457
TOTAL	Entered.	Tons.	72, 990	59, 697	60,994	58,059	61, 121	65, 245	71,893	82, 306	65,028	63,423	70,176	96,892	77, 106	78,761	82, 140	89,748	86,904	51,598	82,813	80,020	89, 906	123, 065	102,530	110,068	99, 588	113,027
	Ent	No.	. !			:	:	:			323	326	329	441	398	428	410	444	408	255	409	384	430	511	479	484	438	467
•	Cleared.	Tons.	2, 931	4, 191	6,631	6,890	3,836	10,276	15,648	25, 499	17,350	18, 526	18, 207	35, 708	23, 163	19, 556	25,546	23, 598	21,260	15, 431	21, 205	22, 342	30,887	55, 228	36, 221	31,652	37, 523	30, 383
VESSELS.	CI	No.							;		75	22	85	141	93	68	109	86	92	20	111	106	128	506	137	143	162	148
FOREIGN VESSELS.	Entered.	Tons.	4, 130	4,515	5,612	6,446	6,315	10,455	20,957	24, 136	18,045	15,522	18, 394	39, 778	22, 685	19,804	23, 903	20,473	21,425	14,464	21,344	20,076	24, 343	40,966	28, 342	23, 583	29, 161	26, 253
	Ent	No.						:			7.5	61	22	158	06	06	101	91	94	89	111	86	111	154	118	115	143	138
	Cleared.	Tons.	61.095	66, 577	58, 323	54, 248	54, 416	64,872	48, 933	46,804	41, 595	45,245	39, 416	39, 195	43,538	49, 298	67,718	63, 588	61,447	41, 473	69,834	69, 716	88, 404	114,702	84,709	118, 158	89, 296	75, 406
VESSELS.	Cle	No.			:	-		:			236	89%	241	230	566	311	352	347	566	222	346	344	405	462	406	490	359	309
AMERICAN VESSELS.	Entered.	Tons.	68,860	55,092	55, 382	51,613	54,806	54,790	50,936	58, 170	46,983	47,901	51,782	57, 114	54, 421	58, 957	58, 237	69, 275	65, 479	37,134	61,469	59, 944	65, 563	82,099	74, 188	86, 485	70, 427	86,774
	Ent	No.									248	265	282	283	308	338	309	353	314	187	598	256	319	357	361	309	295	353
	Years.		23	27	28	62	30	331	32	33	34	35	36	337	38	39	40	41	42	43	14	20	16	17	48	6	850	.851

Statement exhibiting the number of American and foreign vessels, and also their tonnage, employed in foreign trade in the district of Portland, which entered and cleared, annually, from 1826 to 1851, inclusive.

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AMERICAN VESSELS.			FOREIGN	FOREIGN VESSELS.			TOT	TOTAL.	
Ö	Cleared.	E.	Entered.	ָל	Cleared.	En	Entered.	Cle	Cleared.
No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.
	43,816		289		590	:	33, 926		44, 106
:	42,340	:	317	:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	:	40,033	:	42, 340
:	46,963	:			527	:	34, 347	:	47, 490
:	37, 006	:	CALL	:	10	:	30, 456 96, 219	:	37,006
:	41,830	:	394		510		33, 945		42, 340
	43,858		563		829		40, 538		44,687
	42,823		155		237	:	37, 916		43,060
217	40,313	11	1,366	12	1,572	167	33, 334	553	41,885
222	42,669	23	2,095	23	2,092	162	30, 973	245	44, 764
237	45,067	29	8, 580	28	8, 444	172	30, 160	295	53,511
231	43,746	7.5	6,745	- 89	6, 566	168	25, 750	588	50, 312
219	41,400	32	5, 718	29	5, 361	203	33, 498	588	46, 761
	40,745	28	5,262	73	4, 901	204	30, 795	283	45,646
	32, 774	85	5, 530	84	5, 739	178	24, 454	255	38, 513
_	36,895	72	5,024	74	5, 258	174	27, 501	503	42, 153
164	32,510	38	9, 536	833	9, 362	166	26,871	247	41,872
118	22, 939	39	5,520	09	5, 578	104	14,171	178	28, 517
162	32,516	107	9, 557	109	9, 708	197	29, 178	271	42, 224
160	32,827	96	8, 363	91	7,917	213	34,827	251	40, 744
196	39, 512	115	10,318	118	10, 799	240	37,436	314	50,311
161	35, 814	101	8, 505	108	9, 150	500	28, 265	599	44,964
202	41,165	94	6,769	93	6,472	230	35, 113	295	47,657
187	38, 828	254	22,013	258	21,966	338	41,225	445	60,794
202	41,887	316	35, 571	321	35, 758	447	64, 195	523	77,645
255	48, 973	255	28, 660	256	28, 752	459	67,616	511	77, 725
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Statement exhibiting the number of American and foreign vessels, and also their tonnage, which entered from and cleared for foreign countries, including their repeated voyages, from 1821 to 1851, inclusive.

		Cleared.	Tons.	888, 020 911, 238 910, 501 1, 021, 830 1, 055, 446 1, 111, 792 1, 111, 792 1, 105, 196 1, 105, 196 1, 105, 196 1, 362, 370 1, 362, 194 1, 711, 720 1, 362, 194 2, 012, 927 2, 012, 927 2, 012, 927 2, 012, 927 2, 012, 927
	11.	Clea	No.	9,889 11,515 10,396 10,144 12,348
	Total.	Entered.	Tons.	846, 624 889, 502 889, 739 952, 400 973, 681 1, 047, 860 1, 065, 950 1, 099, 127 1, 099, 127 1, 999, 127 1, 999, 127 1, 998, 397 1, 993, 963 1, 993, 963 1, 993, 963 1, 995, 690 1, 993, 963 1, 993, 963 1, 995, 963 1, 995, 963 1, 995, 963 1, 995, 963 1, 995, 963 1, 995, 963 1, 995, 963 1, 995, 963 1, 995, 963 1, 995, 963
STATES.		百	No.	9, 581 11, 292 10, 224 10, 656 9, 775 112, 441
TONNAGE EMPLOYED IN THE FOREIGN TRADE OF THE UNITED STATES.	,	Cleared.	Tons.	83, 073 97, 490 119, 740 1102, 552 95, 080 95, 080 131, 250 151, 030 151, 030 153, 006 133, 436 271, 790 671, 720 661, 166 664, 166 664, 166 661, 168
N TRADE O	Foreign vessels.	ڻ 	No.	4 4 4 9 830 4 4 9 830 4 551 4 561 4 563
n the foreig	Foreign	Entered.	Tons.	81, 526 110, 468 1109, 367 92, 927 1105, 559 1137, 589 1130, 928 1130, 929 1130, 929 1131, 900 281, 194 393, 038 496, 705 6641, 310 6641, 310 669, 203 765, 703 765, 703 765, 703 765, 703 765, 703 765, 703 765, 703 765, 703 765, 703 765, 703
MPLOYED I		En	No.	3, 953 4, 121 4, 121 4, 632 3, 636 4, 105 4, 571
TONNAGE E		Cleared	Tons.	804, 947 813, 748 810, 761 919, 278 960, 366 953, 012 987, 404 971, 760 971, 760 972, 504 972, 504 1, 142, 160 1, 142, 160 1, 142, 160 1, 142, 160 1, 146, 517 1, 266, 622 1, 408, 761 1, 408, 761
	American vessels.	C	No.	7, 7, 7, 7, 888 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8
	America	Entered.	Tons.	765, 098 775, 271 775, 271 864, 033 880, 754 942, 206 918, 361 863, 381 867, 297 922, 952 922, 952 1, 111, 441 1, 352, 653 1, 255, 384 1, 255, 384 1, 265, 384 1,
		百	No.	5, 628 6, 103 6, 023 7, 213 7, 211
	Years ending—			ept. 30, 1821 1822 1824 1824 1825 1826 1827 1827 1829 1830 1831 1833 1834 1835 1836 1836 1836 1836 1837 1838

2, 371, 005 2, 276, 948 1, 792, 038 2, 917, 738 2, 944, 252 3, 189, 206 3, 378, 998 3, 378, 998 4, 429, 433 4, 429, 433 5, 130, 054
12, 34 6, 138 6, 138 13, 743 14, 221 14, 221 17, 329 20, 313 18, 195 19, 986
2, 368, 353 2, 642, 846 2, 694, 876 2, 946, 049 2, 946, 049 3, 321, 705 3, 798, 673 4, 368, 836 4, 348, 639 4, 348, 639
12, 273 11, 474 17, 761 13, 725 13, 725 14, 220 17, 274 20, 200 17, 274 18, 512 18, 512
736, 849 740, 497 523, 949 906, 814 930, 275 968, 178 1, 176 605 1, 404, 159 1, 675, 709 1, 728, 214 1, 929, 535
4, 554 4, 529 8, 529 5, 500 5, 770 6, 268 7, 634 8, 847 9, 816
736, 444 738, 775 534, 775 534, 755 916, 992 910, 563 959, 739 1, 220, 191 1, 710, 191 1, 775, 623 1, 939 091
2, 538 2, 538 5, 577 5, 777 6, 499 7, 631 10, 100
1, 634, 156 1, 536, 451 1, 256, 451 2, 010, 924 2, 201, 924 2, 202, 393 2, 461, 280 2, 753, 724 2, 632, 788 3, 603, 788
7,730 5,230 8,343 8,343 8,197 8,451 10,695 11,466 9,379 9,274
1, 631, 909 1, 541, 113, 523 1, 977, 438 2, 151, 114 2, 101, 359 2, 333, 432 2, 558, 321 2, 573, 016 3, 654, 349 3, 654, 349
7,736 8,148 8,148 7,730 11,208 8,412 8,412
1442 1843 1844 1845 1846 1846 1849 1849 1850

Nore.-Previous to 1834 the number of ressels arriving and departing was not returned by the collectors.

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the United States during the years ending	Crouse.
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te American and foreign tonnage entered and cleared at ports of the United States during the years ending	1849
Statement exhibiting the A	

	AMERICAN TONNAGE	_				FOREIGN TONNAGF.	
En	Entered.	Cleared	əd.	Entered	ēd.	Cleared	d.
Tons.	Per cent. increase.	Tons.	Per cent. increase.	Tons.	Per cent. increase.	Tons.	Per cent. increase.
1,510,111 1,143,523 1,1977,438 2,035,486 2,151,114 2,101,359 2,393,462 2,393,462 2,573,016 3,658,321 2,573,016	1.1 Decrease. 72.92 86 72.92 86 72.92 86 9.94 Decrease. 13.90 11.06 Decrease. 6 Decrease. 6 Decrease.	1, 536, 451 1, 268, 083 2, 010, 924 2, 053, 977 2, 221, 028 2, 202, 393 2, 461, 280 2, 461, 280 2, 632, 784 3, 200, 519	Decrease. 58. 58 2. 14 8. 13 Decrease. 11. 88 Decrease. 25. 56	732, 775 534, 752 916, 992 910, 563 969, 739 1, 220, 346 1, 405, 191 1, 710, 515 1, 775, 623 1, 939, 091	Decrease. 71.48 Decrease. 5.40 27.15 27.15 15.14 21.73 3.80 9.21	740, 497 523, 949 523, 949 906, 814 930, 275 968, 178 1, 176, 605 1, 675, 709 1, 675, 709 1, 723, 214 1, 929, 535	Decrease. 71. 11 2. 58 4. 07 20. 53 11. 15 3. 13. 45 11. 45

Statement exhibiting the amount of tonnage belonging to the United States, annually, from 1836 to 1852, inclusive.

States.	1836.	1837.	1838.	1839.	1840.	1841.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Maine	276, 859	251, 569	270, 232	282, 286	308, 062	305, 291
New Hampshire	20,791	25, 114	26, 148	29, 224	27, 376	25,708
Vermont	1,152	1, 152	4,250	4,232	4, 342	4, 343
dassachusetts	490,389	490, 450	499, 399	506, 375	536, 532	545, 901
Rhode Island	49, 345	45,651	44, 477	44,573	43,425	42,084
Innecticut	70,259	76, 307	80,813	82,914	86,948	65, 279
New York	434, 325	445, 149	444,007	468, 411	455, 419	486,654
New Jersey	50, 513	57, 381	66, 121	62,541	71,916	53, 604
Pennsylvania	104, 549	97, 394	102, 427	112, 359	119, 313	118, 968
Delaware	17,046	18,049	16,772	19, 303	19,772	10,056
Maryland	103, 353	109, 484	104,512	116, 205	120, 334	113, 767
District of Columbia	17, 451	16,971	19, 300	23, 142	24, 435	16, 349
Virginia	49, 311	43, 444	46,053	51,987	54, 251	45, 359
North Carolina	43,745	31,951	36, 202	40,901	42,554	28, 547
South Carolina	17, 482	23, 637	29,684	31, 414	33,666	24, 394
Georgia	11,268	15, 196	19,552	20, 993	22, 180	16, 147
Florida	3,677	7,315	8,574	9,673	10,451	5, 994
Alabama	6,669	10, 320	16, 107	21,742	17,244	15,715
Mississippi						901
Louisiana	81,711	92, 376	104, 426	109,076	126,613	145,799
Texas						
Tennessee	3, 377	5, 194	5,481	4,241	4,733	3,522
Kentucky	1,714	1,714	7,734	8, 126	1,592	8, 360
Missouri	3,669	3,669	9, 373	9,735	11,259	11, 370
Ulinois					2.,	,
Ohio	16,586	19, 373	24, 146	23, 926	26, 442	25, 111
Michigan	6,864	7,826	9,848	11,000	11, 902	11,520
Wisconsin			0,010	11,000	11,000	11,000
Oregon						
California						
Total	1, 882, 105	1, 896, 686	1,995,638	2, 094, 379	2, 180, 761	2, 130, 743

S. Doc. 112.

States.	1842.	1843.	1844.	1845.	1846.	1847.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Maine	281, 330	285, 381	305, 331	320,060	358, 123	384, 353
New Hampshire	23, 922	22,709	22, 925	23,771	20,708	20, 426
Vermont	4, 343	2,763	2,763	2,319	2,048	2,560
Massachusetts	494, 895	495, 303	501, 208	524, 995	541, 520	568,520
Rhode Island	47, 243	45,626	48, 172	47, 209	49, 438	48,010
Connecticut	67,749	70,278	82, 174	91,568	99,023	102,890
New York	516, 296	557,026	591, 297	625, 875	655, 696	737, 025
New Jersey	60,742	63, 379	68, 684	69, 970	76,016	83, 728
Pennsylvania	113, 479	112,050	128, 341	147, 812	148,058	182, 997
Delaware	10, 396	10, 321	10,912	11, 935	11,837	14,662
Maryland	106,856	109,019	111, 339	118, 164	128, 453	139, 128
District of Columbia	17,711	19,527	19,538	20,617	22, 355	23, 458
Virginia	47,537	47, 203	47, 255	50,705	53, 541	59,987
North Carolina	31,682	37, 189	37, 039	39, 862	41, 225	37, 932
South Carolina	23, 469	21,577	21, 148	19,615	19,936	27,019
Georgia	16,536	17,400	17, 105	16, 140	18, 111	21,024
Florida	8,288	10,046	9,577	11, 355	11,866	12,563
Alabama	15, 479	16,095	15, 214	17,910	22,537	18, 431
Mississippi			1,341	1,055	1,055	392
Louisiana	144, 129	150,067	161,769	170, 525	181, 258	213,539
Texas	,					2,488
Tennessee	3,811	4,813	5,667	2,809	2,809	2,707
Kentucky	4,619	5,093	7, 114	8,751	8, 172	10,388
Missouri	14,727	13,589	16,665	18,906	22, 426	31,636
Illinois	,					3, 952
Ohio	24, 830	29, 458	32, 115	35, 297	39, 917	50,781
Michigan		12,690	15, 400	19,776	25, 953	28, 454
Wisconsin	2.0, 0.00					
Wisconsin						j
California		l				1
Total	2 092 392	2, 158, 602	2, 280, 093	2, 417, 001	2, 562, 081	2, 829, 045

States.	1848.	1849.	1850.	1851.	1852.	Rate per cent. of increase from 1836 to 1852, inclusive.
,	Tons.	Tons.	Tons.	Tons.	Tons.	
Maine		466, 489	501, 422	536, 316	592, 806	11412
New Hampshire		25, 369	23, 096	25, 428	24, 891	19.72
Vermont		3,630	4,530	3,932	5,657	391.00
Massachusetts		636, 699	685, 442	694, 403	767, 766	56, 56
Rhode Island		43, 425	40, 489	38, 050	41,049	Decrease.
Connecticut		113,850	113, 087	116, 180	125, 088	78.04
New York		911, 281	944, 349	1,041,015	1, 134, 831	161, 28
New Jersey		82, 250	80, 300	88, 896	96, 134	90. 31
Pennsylvania		231, 653	258 , 939	284, 374	301, 723.	188.59
Delaware		16, 582	16,720	11,880	9,598	Decrease.
Maryland		173, 021	193, 087	204, 545	206, 247	99, 55
Dist. of Columbia *		13,776	17, 011	22, 903	26, 197	50,12
Virginia		73, 283	74,071	68,799	72,538	47.*10
North Carolina	41,405	44,827	45, 219	43,783	50, 621	15.71
South Carolina		32, 486	36, 072	35, 187	46, 735	167. 33
Georgia	20,790	19,866	21,690	24, 185	25, 785	128.83
Florida	15, 165	14,640	11,273	9, 365	9,669	162.96
Alabama	22, 110	25,068	24, 158	27, 327	28, 533	327.84
Mississippi	561	1,516	1,828	1,405	1,452	Entire ton'ge.
Louisiana	227, 010	241, 497	250, 090	253, 285	268, 171	228. 19
Texas	1,352	2,933	4,573	4,913	7, 120	Entire ton'ge.
Tennessee	2,446	2,911	3,776	3,588	4,634	37. 22
Kentucky		13, 955	14,820	12,938	11,819	584.54
Missouri	36, 313	32, 355	28,908	34,065.	37, 862	931.94
Illinois	10, 489	17, 332	21, 242	23, 103	25, 209	Entire ton'ge.
Ohio	62,079	57,941	62, 462	58, 352	60, 338	263.79
Michigan	27, 250	34,658	38, 145	41,775	46, 318	574.76
Wisconsin				2,946	6, 931	Entire ton'ge.
Oregon			1,063	1,063	1,063	Do.
California		722	17, 592	58, 436	101,654	Do.
Total	3, 154, 035	3, 334, 015	3, 535, 454	3, 772, 437	4, 138, 439	119.88
		ł	1	l		

 $^{^*}$ Between 1836 and 1852, Alexandria was retroceded to Virginia, and her tomage, of course, credited to that State, and deducted from District of Columbia.

S. Doc. 112.

Statement exhibiting the number and tonnage of vessels built in the United States, annually, from 1836 to 1852, inclusive.

S]	1836.	1	1837.	1	.838.
States.	No.	Tons.	No.	Tons.	No.	Tons.
Maine	162	27, 022	149	23, 475	144	24, 332
New Hampshire	7	2,731	4	1,866	9	3, 286
Vermont						
Massachusetts	164	22, 273	165	20,794	167	19,548
Rhode Island	. 8	1,804	12	1,427	10	2,108
Connecticut	59	4,502	59	4,421	43	3,780
New York	135	19, 924	136	22,000	113	14,683
New Jersey	65	4,652	81	6,767	86	7,057
Pennsylvania	74	10, 215	65	12,034	58	8,406
Delaware	12	935	5	345	14	1, 256
Maryland	111	9,691	132	10,992	157	15, 464
District of Columbia	1	52	6	947	2	200
Virginia	23	1,481	29	1,618	17	885
North Carolina	7	554	14	865	11	1,033
South Carolina	4	480	7	939	5	1, 377
Georgia	2	379	2	332	3	416
Florida			1	71		
Alabama					2	57
Mississippi			*******	7 740	10	
Louisiana	10	649	16	1,742	13	1, 444
Texas		0.108		080	-	1 000
Tennessee	22	3, 197	2	972	4	1,266
Kentucky	9	1,714			8	1,377
Missouri						
Illinois	6	451	F0	10 905	20	4, 201
Ohio	O	451	52	10, 385	20	4, 201
Wisconsin	9	922	12	996	12	959
Michigan	9	3.22	12	990	12	ฮอฮ
Oregon	e			******		
California						
Total	890	113,628	949	100 000	898	113, 135
10141	090	113,025	949	122, 988	090	119, 199

States.	1	839.	18	340.	18	841.
States.	No.	Tons.	No.	Tons.	No.	Tons.
Maine	145	27,706	181	38, 937	131	26, 874
New Hampshire	7	2,787	6	2,722	8	3, 617
Vermont	146	24, 446	113	TR 010	110	00.050
Rhode Island	9		1	17,812	112	28, 653
Ennocticut	35	1,496 2,771	6 49	1,589	8	1, 180
New York	106	17, 951	72	4, 130 13, 786	28 63	3, 446 17, 438
New Jersey	72	6,770	109	6,792	44	3, 417
Pennsylvania	49	6, 284	103	8, 136	107	6, 970
Delaware	16	1, 221	200	758	6	374
Maryland	129	13, 093	111	11,737	109	10, 738
District of Columbia	14	1,215	2	431	3	9,70
Virginia		826	12	925	19	1, 47
North Carolina		1,349	24	1,296	26	1, 170
South Carolina	. 4	443	2	306	5	28
Georgia	. 7	873	2	254		
Florida	. 3	181	2	66	6	24
Alabama			2	148	3	10
Mississippi						
Louisiana	. 11	862	12	1, 196	18	1, 179
Texas						
Tennessee	. 3	497	1	382	1	4
Kentucky	. 11	2, 102	5	1,091	19	4, 41
Missouri	. 5	939	8	1,210		
Illinois						
Ohio	. 44	6, 593	33	4, 022	45	7, 17
Wisconsin	7	583	7			
Michigan	- 1	953	7	585		
Oregon						
Vamornia						
Total	858	120, 988	871	118, 311	761	118, 893

S. Doc. 112.

	1	842.	1	843.	. 1	844.
States.	No.	Tons.	No.	Tons.	No.	Tons.
Maine New Hampshire	164 5	38, 041 1, 696	71 2	15, 121 234	96 3	20, 200
Vermont						
Massachusetts	72	18,632	40	9,974	43	9,585
Rhode Island	11	2,516	1	120	7	2,814
Connecticut	22	3, 353	12	1,064	25	2,914
New York	184	20, 241	124	13, 299	181	21, 519
New Jersey	47	3, 116	19	1,480	21	1,333
Pennsylvania	212	13,666	63	6,740	141	13,076
Delaware	9	713	3	246	8	586
Maryland	109	7,937	39	3,679	55	5, 418
District of Columbia	49	951	* 11	276	31	850
Virginia	12	889	9	694	10	717
North Carolina	19	1, 185	21	2,000	12	587
South Carolina	7	482	2	206	7	584
Georgia	1	124	1	45	1	72
Florida	6	384	5	522	1	72
Alabama	5	282	2	144		
Mississippi						
Louisiana Texas	14	1,044	8	288	15	669
Tennessee	» 2	321	2	322	2	271
Kentucky.	22	5,608	11	1,664	35	7, 165
Missouri		0,000		1,001	9	2,567
Illinois						2,000
Ohio	49	7,904	31	5, 195	49	9, 498
Wisconsin		1,004	01	0, 100	100	0,400
Michigan			5	305	14	2,285
Oregon					14	2,200
California						
Total	1,021	129,085	482	63,618	766	103, 536

g	1	845.	1	846.	1:	847.
States.	No.	Tons.	No.	Tons.	No.	Tons.
<u> </u>						
Maine	160	31, 105	289	49,748	346	63, 549
New Hampshire	5	2,501	8	2, 171	10	5, 289
Vermont					3	138
Massachusetts	115	25, 962	168	24, 321	138	27,770
Rhode Island	8	1,661	10	2, 395	10	2, 11
Connecticut	22	2,608	35	3,712	42	6,028
New York	230	29, 343	260	33, 253	271	50, 99
New Jersey	64	4,465	60	5,856	101	9, 830
Pennsylvania	178	15, 919	161	15, 788	228	24, 120
Delaware	9	669	22	2,264	25	2, 27
Maryland	66	7,257	137	13, 818	131	12, 69
District of Columbia	15 "	416	23	951	22	809
Virginia	14	2,057	45	3, 465	27	1, 52
North Carolina	14	859	31	1,885	34	2, 38
South Carolina	2	102	4	342	3	169
Georgia	1	83	I	21	1	2
Florida	4	257	8	840	2	389
Alabama	1	80	4	558		
Mississippi.						
Louisiana.	14	627	8	451	12	49
Texas		1				1
Tennessee	1	142	4	575	1	16
Kentucky	26	5,681	46	8,662	31	5, 42
Missouri			11	2, 338	60	6, 07
Illinois				~,000	00	0,000
Ohio	56	11, 599	52	9, 616	83	18, 19
Wisconsin		. 11,000	0.2	0,010	00	10, 10,
Michigan	33	2,726	33	5, 174	17	3, 29
Oregon.		~,	00	0,174	11	0, 20
California						
Total	1,038	146, 019	1,420	188, 204	1,598	243, 73

S. Doc. 112.

	. 18	348.	18	349.	18	350.
States.	No.	Tons.	No.	Tons.	Ño.	Tons.
Maine.	366	89, 974	344	82,256	326	91, 212
New Hampshire	9	5, 326	12	6, 266	10	6, 914
Vermont.	9	1, 189	1.0	. 0, 200	1	77
Massachusetts	181	39, 366	118	23, 889	121	35, 836
Rhode Island	13	4,058	13	2,760	14	3,587
Connecticut	55	7, 387	56	5,066	47	4, 820
New York	382	68, 435	265	44, 104	224	58, 343
New Jersey.	77	8, 178	87	8, 026	57	6, 202
Pennsylvania	296	29, 638	197	24,008	185	21, 410
Delaware	31	3,206	23	1,880	16	1,849
Maryland	146	17, 481	152	17, 463	150	15, 965
District of Columbia	17	501	22	609	8	288
Virginia	34	2,980	38	3, 095	. 34	3,584
North Carolina	43	2,947	29	2,032	33	2,652
South Carolina	4	450	8	656		
Georgia	ī	212	2	756	5	6 84
Florida	4	318	I	120	2	80
Alabama	4	265	3	107	3	114
Mississippi						
Louisiana	18	1,620	21	1,756	24	1,592
Texas		,			1	106
Tennessee	1	55	2	243		
Kentucky	39	9,275	84	8, 423	34	6, 461
Missouri	38	6, 256	19	2,887	5	1,354
Illinois			13	2,211	13	1,691
Ohio.	63	13,656	63	12,817	31	5, 214
Wisconsin				,		
Michigan	20	5, 302	25	5, 149	14	2,06
Oregon					2	129
California						
Total	1,851	318, 075	1,547	256, 579	1,360	272, 219

8	1	851.	1	852.
States.	No.	Tons.	No.	Tons.
Maine	254	77, 399	354	110 047
New Hampshire.	7	8, 158	14	110,047
Vermont	4	561	14	9,515
Wassachusetts	133	41, 324	161	40.000
Rhode Island	12			48,002
Connecticut	35	3, 057	14	3, 205
New York	229	3, 414 76, 805	65	9,035
New Jersey	70		179	72,073
Pennsylvania	200	5, 869	38	3, 953
	15	28, 623 2, 059	188	31, 220
Delaware	130	18, 027	23	2, 923
District of Columbia	74		119	18, 159
	27	4,439	27	1,995
	33	1,778	40	3,800
North Carolina		1,725	32	2, 229
South Carolina	ă	625	7	939
Georgia	6	2, 369	2	323
Florida	4	276	1	30
Alabama	5	355	2	93
Mississippi				
Louisiana	24	2, 327	16	1,285
Texas				
Lannessee.	I	225	5	480
Kentucky	38	8,862	27	7, 314
Missouri	11	2 ₉ 066	11	2, 133
MAQUE	4	314	17	1, 217
Ohio	25	6,036	77	18, 329
Wisconsin.	1	76	9	556
Michigan	9	1,366	16	2,639
Oregon				
California	1	70		
Total	1,357	298, 205	1, 444	351, 494

Statement showing the national character of the foreign vessels entered and cleared at ports in the United States, with their tounage, from 1842 to 1851, inclusive.

ENTERED.

National character of vessels.	1842.	1843.	1844.	1845.	1846.	1847.	1848.	1849.	1850.	1851.
					1		37	40		
	Tons.	Tons.		Tons.	iệt	•	Tons.	Tons.	Tons.	Tons.
British	599, 502	453, 894	_	760,095		993,	1, 177, 104	1, 482, 707	1, 450, 539	1,559,869
Hanseatic	48, 728	38, 202		51, 683		84,	82,805	72, 392	74,776	109, 108
French	15,876	13, 582		11,536		30	24,970	31,466	30,762	25, 252
Swedish and Norwegian	23, 067	10,568		38, 670		8	30,797	31, 172	58,098	62,686
Spanish	11,677	7,249		13,418		18,	29, 342	29,814	37, 296	44, 592
Dutch	3,471	511	2, 501	2,576	4,299		12,758	7,594	8,867	21,708
Belgian	8, 429	611		2, 104		'n	6, 338	5,265	5, 193	7,754
Sicilian	4,030	920		5, 114		Τ,	3,803	3,017	5,703	5, 391
Danish	6,080	2, 190		4,363		රා	11, 100	9,278	11,046	8, 662
Prussian	1,359	1,916		3,279		'n	5, 116	4, 536	15,901	15,622
Russian	1,973	695		4,073			916	6,627	26, 283	17,579
Sardinian	1,777	443		2,625		ທີ	2,964	6,495	11, 790	14,746
Austrian	462		1,033	3, 305		4,	2, 250	4, 178	7, 489	6,723
Venezuelan and Colombian	3, 395	1,491	1,608	1,319		<u>`</u>	806	826	1,713	1,445
All other foreign vessels	2, 949	2,480	5, 799	6, 376		10,	14,020	14, 996	30, 167	37, 954
Total	732, 775	534,752	916, 992	910, 563	959, 739	1, 220, 346	1, 405, 191	1,710,515	1,775,623	1, 939, 091
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1851.	Tome	1, 552, 170	110,570	26,608	65, 689	41,266	19,965	5,560	7,307	8, 427	18, 313	12, 667	15,075	8, 125	1,862	35, 931	1, 929, 535
1850.	Tons	1,404,799	77, 570	27,644	59, 946	36, 279	10,859	5, 131	4,455	11,220	12, 192	25, 253	9,852	6.447	• 1,938	34,629	1, 728, 214
1849.	Tons	1,449,273	76, 553	31, 292	32, 011	28, 294	5, 135	5,624	2,866	11,033	4,412	5,057	5, 171	4,264	774	13,950	1,675,709
1848.	Tons.	1, 159, 863	81,801	26, 480	41,080	28, 936	19, 932	6, 794	2, 690	11, 217	4, 190	916		2,548		14, 202	1, 404, 159
1847.	Tons.	966, 219	82, 805	26,746	29, 248	17,847	9, 205	3,836	1,875	9,075	5,811	1, 333	5, 307	5,094	222	11,650	1, 176, 605
1846.		809, 797															968, 098
1845.	Tons.	770,844	55, 269	12,083	40, 494	13, 988	2, 527	1,869	4, 184	3, 333	3, 627	6, 609	2, 105	4, 434	1, 298	7, 611	930, 275
1844.	Tor	756, 669	53	17,	ထွ်	٦,	٣Î	ર્જ	4	6,	ທົ	cί		565	1,648	5, 623	906, 814
1843.		441, 535												:	1,429	Ħ,	523, 949
1842.	Tons.	599, 950	52, 975								1,725						740, 497
National character of vessels.		British	Hanseatic	French	Swedish and Norwegian	Spanish	Duten	Belgian	Siculan	Danish	Frassian	Kusstan	Sardinian	Austrian	Venezuelan and Colombian	All other foreign vessels	Total

S. Doc. 112.

Statement exhibiting the average tonnage of vessels built in

States.	1836.	1837.	1838.	1839.	1840.	1841.	1842.
Maine	166.80	157.55	168. 97	191.07	215, 13	205. 14	.231.96
New Hampshire Vermont	390, 14	466, 50	365. 11	398. 13	453, 66	452. 12	339, 20
Massachusetts	135, 81	126, 02	117.05	167, 43	157, 62	255, 83	258.77
Rhode Island	225, 50	118.91	210.80	166, 22	264. 83	147.50	228. 73
Connecticut	78	74. 93	87.72	79. 17	84.28	123.07	152.41
New York		161, 76	129, 94	169, 35	191. 47	276, 79	110, 01
New Jersev	71.57	83, 54	82.06	94. 03	62, 31	77, 66	66, 30
Pennsylvania	138.04	185, 14	144, 93	128, 24	78.99	65, 14	64.46
Delaware	77, 91	69	89, 71	76. 31	84, 22	62, 33	79, 22
Maryland	87, 30	83, 27	98.49	101.49	105, 73	98.51	72, 81
District of Columbia	52	157.83	100	86.78	215, 50	31, 33	19, 40
Virginia	64.39	55.79	52.05	82.60	77.08	77.53	78.08
North Carolina	79, 14	61,78	93.91	53.96	54	45. 23	62, 37
South Carolina	120	134, 14	275.40	110.75	153	56	68.86
Georgia	189, 50	166	138.66	124,71	127		124
Florida		71		60. 33	33	40, 16	64
Alabama			28, 50	A	74	36, 33	56.40
Louisiana	64, 90	108, 87	111.08	78.36	99.66	65. 11	74.57
Texas	-512-52						
Tennessee	145, 32	486	316, 50	165, 66	382	45	160, 50
Kentucky	190, 44		172.12	191.09	218. 20	232. 47	254.91
Missouri			, T	187.80	151. 25		
Illinois		100 71	010.05	140.04	101 00	150 50	101 00
Ohio	75, 17	199,71	210, 05	149,84	121, 88	159, 53	161, 36
Wisconsin	700 44	00	WO 01	00.00			
Michigan		83 .	79.91	83. 29	83, 57		
Oregon							
Camorma							*****
United States	127, 78	127, 67	129, 60	125.98	141.01	135.83	156, 23

the United States, annually, from 1836 to 1852, inclusive.

1843.	1844.	1845.	1846.	1847.	1848.	1849.	1850.	1851.	1852.
	210, 42	194, 41	170 14	100.04	045.00	000 45			
212, 97	251.33	500.20	172, 14	183. 64	245, 83	239, 12	279, 79	304, 72	310, 84
117	201.00	200.20	271-37	528.90	591.78	522, 17	691, 40	1165, 43	679.64
040 05	222, 91	225.75	144, 77	45	132, 11		77	140, 25	
249, 35	402	207, 62	239.50	201.23	217.49	202, 45	296, 16	310, 71	298. 15
120	116.56	118, 54	106.06	210. 10	310.61	212, 30	256, 21	254, 75	228.93
88, 66	118.88	127.58	127.89	143.52	134, 30	90, 26	102, 55	97,54	139
107. 25	63. 47	69.76	97.60	188. 17	179, 15	166, 43	260, 46	335, 39	402.64
77.89	92.74	88.87	98.06	97. 32	106, 20	92, 25	108, 80	83, 84	104.02
106, 98				105. 81	100.13	121,86	115, 72	143, 13	166.06
82	73. 25	74.23	102.90	91. 16	103. 42	81,74	115, 56	136, 60	127.08
94,79	98.50	109, 95	100.88	96.88	119.80	114, 89	106, 43	138, 67	152.59
25.09	27.42	27.73	41.35	36. 45	29. 47	27.68	36	59.98	73.89
77.11	71,70	146.93	77	56.48	87.65	81, 44	105, 41	65, 85	95
95, 23	48.92	61.35	60, 81	70.15	68, 53	70,07	80, 36	52, 27	69.65
103	83, 43	51	85, 50	54.	112, 50	82	100.00	125	134. 14
45	72	83	21	25	212	378	136, 80	394, 83	161.50
104, 40	72	64. 25	105	194	79, 50	120	40	69	30
72		80	139, 50		66, 25	35, 67	38	71	46.50
36	44,60	44.78	56, 37	41. 17	90	83, 62	66, 33	96, 96	80.44
							106		
161	135, 50	142	143, 75	167	55	121, 50		225	96
151, 27	204,71	218.50	188, 30	174. 97,	237, 82	247, 73	190, 03	233, 21	270.89
	284, 89		212,54	101, 21	156, 73	151, 95	270, 80	171,82	193. 91
•••••						170.07	130, 08	78, 50	71.59
167, 45	193, 84	207, 12	184, 92	219.18	216, 76	203, 44	168, 19	241, 44	238, 04
								76	61.78
61	163, 21	82, 60	156,79	193.70	265.10	205, 96	147 28	151.78	164.94
							61		
				•••••				70	
126, 43	131, 97	135. 16	132, 54	152, 52	171.84	165, 86	200, 16	219.75	243, 41

S. Doc. 112.

Exports and imports from the principal commercial States of the Union for the years 1810, 1820, 1830, 1840, 1850, and 1851.

EXPORTS.

	FLORIDA.		ALAB	AMA:
Year.	Amount.	Increase.	Amount.	Increase.
810. 820 830 840 850	\$30,495 1,850,709 2,607,968 3,939,910	From 1830 to 1851, 12,820 per cent.	\$96,936 2,294,594 12,854,694 10,544,858 18,528,824	}707 per ct

VIRGINIA.			NORTH CAROLINA.	
*	Year.	Amount.	Amount.	Increase.
			\$403,949 808,319	
1830 1840		4,791,644 4,769,937	399,333 387,484	7 per ct.
	• • • • • • • • • • • • • • • • • • • •		416,501 426,748) Poz ou

	SOUTH CAROLINA.	GEORGIA.		
Year.	Amount.	Increase.	Amount,	Increase.
1810 1820 1830 1840 1850	$ \begin{array}{c} \$5,290,614 \\ 8,882,940 \\ 7,627,031 \\ 9,981,016 \\ \cdot 11,446,892 \\ 15,316,578 \end{array} $	} 46 per ct.		} 138 per ct.

EXPORTS—Continued.

•	MARYLAND.		Louis	HANA.	
Year.	Amount	Increase.	Amount.	Increase.	
1810 1820 1830 1840 1850	\$6,409,018 6,609,364 3,791,482 5,495,020 6,589,481 5,416,798		\$2,650,050 7,596,157 15,488,692 32,998,059 37,698,277 53,968,013	500 per ct. 135 per ct.	
	MAINE.		. MASSACH	USETTS.	
Year.	Amount.	Increase.	Amount.	Increase.	
1810 1820 1830 1840 1850	\$1,108,031 670,522 1,009,910 1,536,818 1,517,487	}126 per ct.	\$13,013,048 11,008,922 7,213,194 6,268,158 8,253,473 9,857,537	36 $\frac{1}{2}$ per ct.	
	NEW YORK.		PENNSY	LVANIA.	
Year.	Amount.	Increase.	Amount.	Increase.	
1810 1820 1830 1840 1850	19,697,983	14 per ct. 245 per ct.	\$10,993,398 5,743,549 3,791,482 5,736,456 4,049,464 5,101,969	}33 per ct.	

S. Doc. 112.

IMPORTS.

FLORIDA.		ALABAMA				
Year.	Amount.	Year	Amouut.			
1830	\$32,689 190,728 95,709 94,937	1830 1840 1850 1851	\$144,823 574,651 865,362 413,446			
VIRGINIA		NORTH CAROLI	na.			
Year.	Amount.	Year	Amount.			
1830	\$405,739 545,085 426,599 552,932	1830	\$221,99; 252,53; 323,39; 206,93			
SOUTH CAROL	ina.	e GEORGIA.				
Year.	Amount.	Year.	Amount.			
1830	\$1,054,619 2,058,870 1,933,785 2,081,312	1830	\$282,346 491,426 636,964 721,54			

S. Doc. 112.

IMPORTS—Continued.

MARYLAN	D.	LOUISIANA				
Year.	Amount.	Year.	Amount.			
1830	\$4,523,866 4,910,746 6,124,201 6,650,645	1830	\$9,766,693 10,673,190 10,760,499 12,528,460			
MAINE.		MASSACHUSET	TS.			
Year.	Amount.	Year.	Amount.			
1830	\$572,666 628,762 856,411 1,176,590	1830	\$10,453,544 16,513,858 30,374,684 32,715,327			
'NEW YOR	к.	PENNSYLVANIA.				
Year.	Amount.	Year.	Amount.			
1830	\$35,624,070 60,440,750 111,123,524 141,546,538	1830	\$8,702,122 8,464,882 12,066,154 14,168,761			

Statement exhibiting the value of foreign imports into the principal commercial States.

States.	1825.	1835.	1840.	1850.	1851.
Northern commercial States.					
Maine Massachusetts Rhode Island Connecticut New York Peunsylvania	\$1, 169, 940 15, 845, 141 907, 906 707, 478 49, 639, 174 15, 041, 797	\$883, 389 19, 800, 373 597, 713 439, 502 88, 191, 305 12, 389, 937	\$628,762 16,513,858 274,534 277,072 60,440,750 8,464,882	\$856, 411 30, 374, 684 258, 303 372, 390 111, 123, 524 12, 066, 154	\$1, 176, 590 32, 715, 327 310, 630 342, 994 141, 546, 538 14, 168, 761
Total	83, 311, 436	122, 302, 219	86, 599, 858	155, 051, 466	190, 260, 840
Southern commercial States.					
Maryland Virginia North Carolina South Carolina Georgia Louisiana Alabama Florida	4,751,815 553,562 311,308 1,892,297 343,356 4,290,034 113,411 3,218	5, 647, 153 691, 255 241, 981 1, 891, 805 393, 049 17, 519, 814 525, 955 98, 173	4, 910, 746 545, 085 252, 532 2, 058, 870 491, 428 10, 673, 190 574, 651 190, 728	6, 124, 201 426, 599 323, 692 1, 933, 785 636, 964 10, 760, 499 865, 372 95, 709	6, 650, 645 552, 933 206, 931 2, 081, 312 721, 547 12, 528, 460 413, 446 94, 997
Total	12, 259, 001	27, 009, 185	19, 697, 230 .	21, 166, 821	23, 250, 271
Unenumerated States.	769, 638	584, 338	844, 431	1, 920, 031	2,713,821
Total of all States	96, 340, 075	149, 895, 742	107, 141, 519	178, 138, 318	216, 224, 932

Statement exhibiting the value of domestic exports from the principal commercial States.

States.	1825.	1835.	1840.	1850.	1851.
Northern commercial States.	Ţ				
Maine	\$964, 664 4, 263, 104 519, 589 684, 686 20, 651, 558 3, 936, 133	\$1,044,951 5,564,499 182,188 466,347 19,126,513 2,125,736	\$1,009,910 6,268,158 203,006 518,210 22,676,609 5,736,456	\$1, 536, 818 8, 253, 473 206, 299 241, 262 41, 502, 800 4, 049, 464	\$1,517,487 9,857,537 223,404 433,894 68,104,542 5,101,969
Total	31,.018,734	28, 510, 234	36, 412, 349	55, 790, 116	85, 238, 833
Southern commercial States.					
Maryland	3, 092, 365 4, 122, 340 553, 390 10, 876, 475 4, 220, 939 10, 965, 234 691, 897 2, 865	2, 250, 642 5, 564, 785 282, 715 6, 978, 698 4, 951, 000 23, 916, 582 5, 751, 645 45, 259	5, 495, 020 4, 769, 937 387, 484 9, 981, 016 6, 862, 959 32, 998, 059 12, 854, 694 1, 850, 709	6, 589, 481 3, 413, 158 416, 501 11, 446, 892 7, 551, 943 37, 698, 277 10, 544, 858 2, 607, 968	5, 416, 798 3, 087, 444 426, 748 15, 316, 578 9, 158, 879 53, 968, 013 18, 528, 824 3, 939, 910
Total	34, 525, 505	49,741,326	75, 199, 878	80, 269, 078	109, 843, 194
Unenumerated States	1, 400, 506	22, 937, 522	2, 283, 407	887,718	1, 607, 691
Total of all States	66, 944, 745	101, 189, 082	113, 895, 634	136, 946, 912	196, 689, 718

Statement of tonnage entering and departing from the United States to foreign countries.

1		1825.			18	1835.			1840	10.	1
States.	Inward.	Outward.	Total.	Inward.	Outward.	Total.	Increase.	Inward.	Outward.	Total.	Increase.
Maine New Hampshire Nassachusetts Rhode Island Connecticut New York Pennsylvania Maryland Virginia North Carolina South Carolina South Carolina Florida Alabama Louisiana	73, 522 16, 614 177, 491 23, 354 294, 772 294, 772 298, 744 33, 236 6, 744 5, 696 16, 895 6, 728 6, 728 72, 978	116, 581 8, 035 150, 915 23, 923 24, 395 275, 729 84, 820 70, 073 45, 593 45, 593 74, 601 28, 875 323 10, 730 77, 378	. 190, 103 24, 649 328, 406 47, 273 46, 467 570, 501 173, 086 1130, 297 45, 760 1, 005 17, 458 17, 458	113, 907 6, 564 269, 497 200, 871 11, 033, 748 74, 993 63, 742 22, 742 22, 742 22, 742 37, 266 8, 268 8, 268 8, 268 156, 370	127, 079 3, 396 24, 188 20, 146 20, 146 35, 824 57, 649 57, 649 57, 649 57, 649 57, 649 57, 649 57, 649 57, 649 58, 179 58, 17	240,986 10,560 517,685 42,006,681 1,066,681 127,300 85,553 185,563 135,563 135,563 14,508 76,344 352,539	50,883 *14,089 189,279 *4,667 *7,764 496,180 *86,070 *11,517 11,396 *19,470 11,396 *19,470 11,386 *19,470 11,386 *19,470 *19,470	128, 147 12, 757 231, 456 19, 357 19, 387 10, 006, 990 88, 140	157, 559 4, 864 24, 664 17, 436 24, 601 881, 316 83, 284 93, 284 14, 159 107, 555 88, 604 11, 508 118, 103 350, 371	285, 736 17, 621 568, 210 36, 833 48, 017 1, 868, 306 175, 404 175, 404 175, 404 175, 404 175, 404 175, 404 175, 404 175, 404 175, 404 189, 637 168, 200 168, 44, 750 7, 965 50, 585 50, 585 93, 773 801, 685 84, 314 4, 81, 104 8, 730 8, 617 87, 316 64, 374 108, 531 853, 309	
States unenumerated	963, 469 10, 202	1, 039, 890 15, 556	2, 003, 369 25, 758	1, 042 , 443 51, 520	1, 979, 046 52, 295	3, 921, 489 103, 815	1, 918, 120 78, 057	2, 202, 164 87, 145	2, 262, 053 91, 442	4, 464, 217	542, 728
Total of all States	973, 681	1, 055, 446	2, 029, 127	1, 993, 963	2, 031, 341	4,025,304	1, 996, 177	2, 289, 309	2,353,495	4,642,804	617, 500

* Decrease

		1850	~			1821	•	
States,	Inward.	Outward.	Total.	Іпстеаве.	İnward.	Outward,	Total	Тистевны
Maine.	143, 186	202, 137		59,587	147,184	195, 741	342, 925	*2,398
New Hampshire	11,044	8,213	19, 257	1,636	7,397	7,693	15,090	*4, 167
Massachusetts	611, 449	546,952		590, 191	661,574	626, 800	1,288,374	129, 973
Rhode Island	19, 922	18,475		1,564	22,892	23, 585	46,477	8,080
Connecticut	34, 152	27, 317		13, 453	34,712	30,661	65, 373	3,904
New York	2, 277, 720	2, 149, 096		2, 558, 510	2,746,129	2, 467, 132	5,213,261	786,445
Pennsylvania		111,618		72,658	159,638	140, 174	299, 812	55,824
Maryland	99, 588	126,819		51,003	113,027	105,789	218,816	165,24
Virginia	30, 965	65, 458		6,786	34, 563	65, 347	99,910	3,487
North Carolina.	28, 300	42,232		3, 180	20,318	42, 388	65, 706	*4,826
South Carolina.	96,916	125,052		53, 768	93, 064	140, 508	233, 572	11,604
Georgia	57,017	72, 563		423, 386	47,096	60, 709	116,805	*12,775
Florida	17,980	22, 156		16,254	25, 225	29, 303	64, 528	14,392
Alabama	96,030	112, 986		24, 130	55, 684	121, 265	176, 949	*32,056
Louislana	350, 853	369, 937		114, 942	328, 932	421, 566	750, 498	29, 708
	4,007,482	4,001,010	8, 008, 492	3, 544, 275	4, 497, 433	4, 487, 661	8, 985, 094	976, 602
States unenumerated	341, 157	359, 992	701, 149	522, 562	496, 007	642, 393	1, 138, 400	437, 251
Total of all States	4, 348, 639	4, 361, 002	8, 709, 641	4,066, 337	4, 993, 440	5, 130, 054	10, 123, 494	1, 413, 853

* Decrease

Statement of tonnage entering and departing from northern and southern States.

54							Ю.	יע	00.	•	LL	ه نیک										
	Increase.					801, 625 24, 314	937,816		48 104	4, 084	8,790	32, 617	57, 310	108, 531	253, 309	517, 125		517, 125		31, 183 8, 661	A1 - E00	50C 1170
.01	Total.		17,621			1,868,306 171,330	2, 996, 053		175 404					184,875		1,468,164	:	1, 468, 164		47, 392 25, 786	A 640 904	
1840	Outward.					861, 316 83, 628	1, 896, 194		93, 264	54,858	41, 159	107, 555	12,508	118, 103	350, 371	865, 859		865, 859	00, 00	15,504	9 353 495	202
	Inward.	128, 147	201 450	19, 397	23,416	1,006,990 87,702	1, 599, 859	1, 652, 459	82, 140	34,779	26, 193	64 995	11, 374	66, 772	255, 477	602,305		602,305	. 04 060	10,282	2, 289, 309	
	Іпстевве,					496, 180 *26, 070	683, 748 72, 054	755, 802						58,886		327, 159		327, 159		*3,996	1, 996, 178	
35.	Total.					1, 066, 681 147, 016	2, 064, 237 76, 691	2, 140, 928	127, 300	85, 553	58,562	95, 650	19,508	76,344	50%, 559	951,039		951, 039	<u> </u>	17,	4,025,301	
1835.	Outward.					932, 933 68, 023	1, 422, 100 39, 230	1,461,330						45, 460		550,736		550, 736	8 846	10, 429	2, 031, 341	Dogwoon
	Inward.					1, 033, 748 78, 993	1,542,137	1, 579, 598	63, 476	27, 904	22,742	37, 265	8,258	30,884	uso, or u	400,303		400, 303	7, 363	6,696	1, 993, 960	*
	Total.					570, 501 173, 086	1,380,489	1, 385, 126						17,458		622, 880	Water of West and State of the	623, 880		21, 121	2, 029, 127	
1825.	Outward.	116,581					684, 398 3, 214	687,612	70,073	48,919	74,593	28,875		10, 730		355, 492		355, 492		12, 342	1,055,446	
	Inward.	73,522	177, 491	23, 354	22, 072	88, 263	696, 091 1, 423.	697, 514	68,744	23, 236	45, 696	16,885	683	6, 728		267, 388	The second secon	267, 388		8,779	973, 681	
States.		Maine New Hampshire	Massachusetts	Rhode Island	Connecticut	Pennsylvania	Unenumerated	Total of northern States.	Maryland	North Conciling	South Carolina	Georgia	Florida	Alabama Louisiana		Texas	•	Total of southern States	Other States not enumerated	District of Columbia	Total	

2		1850,	50.			1851	1.	
brates.	Inward.	Outward.	Total.	Increase.	Inward.	Outward.	Total.	Increase.
Maine.		202, 137	345, 323	59, 587	147, 184	195, 741	342, 925	* 2.398
New Hampshire	Π,	8,213	19, 257	1,636	7, 397	7,693	15,090	* 4, 167
Massachusetts	611,	546,952	1, 158, 401	590, 191	661, 574	626, 800	1, 288, 374	129, 973
Rhode Island	19,	18, 475	38, 397	1,564	22,892	23, 585	46, 477	8,080
	&	27	61,469	13, 452	34,712	8	65, 373	3,904
New York.	2, 277, 720	2, 149, 096	4, 426, 816	2, 558, 510	2, 746, 129	2, 467, 132	5, 213, 261	786, 445
Pennsylvania	132,	111,618	243, 988	72,658	159, 638	140, 174	299, 812	55, 824
Unenumerated	3, 229, 843	3, 063, 808 83, 987	6, 293, 651 185, 023	3, 297, 598	3, 779, 526 129, 201	3, 491, 786 122, 776	7,271,312	977, 661 66, 954
Total of northern States.	3, 330, 879	3, 147, 795.	6, 478, 674	3, 377, 212	3, 908, 727	3, 614, 562	7, 523, 289	1,044,615
Maryland	.66			51,003	113,027	105, 789	218,816	* 7.591
4	30,			6,786	34, 563	65, 347	99, 910	3, 487
:	86			3, 180	20, 318	42,388	65, 706	* 4,826
South Carolina	96, 916			53, 768	93, 064	140, 508	233, 572	11,604
Georgia	57,017			* 23, 386	42,096	60,40	116,805	* 12, 775
Florida	17, 980			16, 254	25, 225	29, 303	54, 528	14, 392
Alabama	96, 020 350, 853	112, 985 369, 937	209, 005 720, 790	24, 130 114, 942	55, 684 328, 932	121, 265 421, 566	176, 949 750, 498	* 32, 056 29, 708
	777 639	937, 909	1, 714, 841	946.677	717, 909		1 716 784	1 043
Texas	3,671	3, 608	7, 279		3, 363	2, 337	5,700	* 1,579
Total southern States	781, 310	940,810	1, 722, 120	246,677	721, 272	998,212	1, 722, 484	1,943
Other States not enumerated	235, 036	270,677	505,713	458, 321	361.766	515, 421	877, 187	371. 474
District of Columbia	1,414	1,720	3, 134	* 22, 652	1,677	1,859	3, 536	405
Total	4, 348, 639	4, 361, 002	8, 709, 641	4, 066, 837	4, 993, 442	5, 130, 054	10, 123, 496	1, 413, 855
			* Doorong	2000				

INLAND WATER-ROUTES.

The following tables are submitted in reference to the inland water-routes, and the character and value of their trade, so far as they could be obtained. Application was made to persons in each of the principal cities for information relating to their inland trade, which was unsuccessful. It is mentioned with the hope that the principal commercial cities on the Atlantic and in the interior will promptly take measures to have this matter receive proper attention.

It is due to the interests of the cities, to the inland trade, and to the railroad interest, that all the information relating to routes, facility of transportation, expense, distance, &c., should be correctly prepared

and promptly given to the public in annual statements.

It is necessary to state again, if any complaints are made of interesting local points being unnoticed in this report, the fault is not with the undersigned, but is chargeable to the indifference of those to whom repeated applications were made for the requisite data.

The appended statements have been compiled from official and authentic returns, exhibiting the estimated value of the tonnage of the leading inland water-routes which connect the tide-waters of the Atlan-

tic with those of the Gulf of Mexico.

There are at the present time four great routes to which the interior trade of the country has been chiefly confined—the St. Lawrence, the Erie canal, the Pennsylvania improvements, and the Mississippi river and its tributaries. All these routes are mutually connected by an interior network of railroads and canals, and merchandise may be forwarded from the respective termini of each, upon tidewater, to any part of the country, (and by water except upon the Pennsylvania line,) and may be passed with convenience from one to the other. There are important works recently completed, and others in progress, designed to occupy a similar relation to this trade to those already described; but these have too recently come into operation to allow their results to be compared with the above-named. None of the former have passed into the great interior basin of the country save the Georgia line, which is yet wanting in those connexions which are necessary to secure to it the trade of an extensive range of country. When completed, the Baltimore and Ohio railroad will add another to what may be termed the national lines, and others equally extensive, and perhaps equally important, will soon follow.

Up to the present time, consequently, the routes of commerce between the interior and the seaboard have been those first described. We have, however, unfortunately, accurate and satisfactory returns of the quantity and value upon one route only—the Erie canal. The excellent system prevailing upon that work gives, in great detail, every fact of interest in reference to the source whence received, tonnage, value, character, and direction of all property passing over it. Upon the St. Lawrence canals, values are not given in the reports of the Board of Works of Canada; and these have been estimated to agree, as nearly as possible, with the returned values of the same articles upon the Erie canal. The tables showing the values of produce received at New Orleans from the interior are compiled from the annual statements which

have appeared in the "New Orleans Price Current" for a series of years. There is no mode of ascertaining the value of property passing up the Mississippi river from New Orleans: it has, therefore, been estimated in the following tables to equal three times the amount of

importations of foreign goods.

The want of correct statistical information relating to the trade, commerce, and navigation of this confederacy is a sufficient reason for commending, in a special manner, to the public, the volumes recently published, by Professor DeBow, of the University of Louisiana, entitled "The Industrial Resources of the South and West," which can be profitably consulted by all desirous of obtaining commercial information minute in its details and philosophical in its arrangement.

ERIE CANAL ROUTE.

Statement showing the value of each class of property reaching tide-water on the Hudson during a series of years, ending December 31.

Products of the forest.	Agriculture.	Manufactures.	Merchandise.	Other articles
\$10,160,656	\$36,394,913	\$4,335,783	\$329,423	\$2,706,733
7,192,706	38,455,456	3,899,238	508,048	$egin{array}{c} 2,323,495 \ 2,319,983 \end{array}$
6,909,015 8,798,873	37,336,290 54,624,849	3,834,360 6,024,518	593,619 517,594	2,210,623 $3,127,080$
8,589,291 7,759,596	33,662,818 27,612,281	4,805,799 3,432,259	276,872 88,497	3,770,476 3,559,658
7,716,032	21,020,065	3,489,570	86,153	2,328,526 $1,667,922$
	\$10,160,656 10,315,117 7,192,706 6,909,015 8,798,873 8,589,291 7,759,596	\$10,160,656 10,315,117 7,192,706 6,909,015 8,798,873 8,589,291 7,759,596 7,716,032 \$36,394,913 38,311,546 37,336,290 54,624,849 8,589,291 33,662,818 7,759,596 27,612,281 7,716,032 21,020,065	\$10,160,656 \$36,394,913 \$4,335,783 10,315,117 38,311,546 3,960,864 7,192,706 38,455,456 3,899,238 6,909,015 37,336,290 3,834,360 8,798,873 54,624,849 6,024,518 8,589,291 33,662,818 4,805,799 7,759,596 27,612,281 3,432,259 7,716,032 21,020,065 3,489,570	\$10,160,656 \$36,394,913 \$4,335,783 \$329,423 10,315,117 38,311,546 3,960,864 563,615 7,192,706 38,455,456 3,899,238 508,048 6,909,015 37,336,290 3,834,360 593,619 8,798,873 54,624,849 6,024,518 517,594 8,589,291 33,662,818 4,805,799 276,872 7,759,596 27,612,281 3,432,259 88,497 7,716,032 21,020,065 3,489,570 86,153

The following brief notices and accompanying tables will serve more fully to illustrate the character of the business of this route in detail, and also convey to the mind of the reader some idea of the influence which the commerce flowing through this channel has had in building up the towns and cities on the tide-waters of the Hudson river.

Albany.—This city, one of the most ancient, and at one time of first commercial importance among the marts of America, has direct rela-

tion with colonial trade and lake commerce and navigation.

When it is considered that the extraordinary facilities furnished by the Hudson river toward reaching the great marts on the Atlantic coast called into existence, if they did not actually create a necessity for, those artificial channels through which the great lake commerce finds its way to tide-water, it will be seen that there is a most intimate commercial connexion between the great lakes and the ports on the tide-waters of the Hudson. The whole effect, therefore, of the vast trade under consideration, is not visible without a sketch of the business of those ports—especially as much of the Canada trade, indeed nearly the whole of it, with this country, reaches tide-water by way of Albany, and makes part of the commerce of the Hudson.

There are several cities on the banks of this noble river worthy of notice. Albany, Troy, Lansingburgh, and Waterford, are all places of

thriving business.

Waterford is the most northerly, and lies on the west bank of the river, nearly opposite Lansingburgh, at the point where the Champlain and Erie canals form their junction. It is not a large town, but has some flourishing manufactories, among them several flouring mills, which add much to its canal commerce.

Lansingburgh, on the opposite side of the river, a little further south, is an old town, which was engaged in a flourishing river commerce, carried on by means of sloops and schooners, as early as 1770, with New York and the West Indies.

The introduction of steam has caused that trade to cease; and Lansingburgh, being off the line of the canal, has little use for her docks and

warehouses at this day.

Troy, three miles south of Lansingburgh, is a large and enterprising modern city of about 30,000 inhabitants, having increased in population, from 1840 to 1850, 9,451. The city lies on both sides of the Hudson, six miles north of Albany, and one hundred and fifty-six from New York. The principal portion of the city is on the eastern bank of the river, over which communication is kept up by ferries and a bridge. Troy is at present, therefore, virtually at the head of steamboat navigation on the Hudson. On the west bank, the canal is connected with the river by a lock, through which boats may pass and thence tow by steam to Albany and New York, or, which is more frequently the case, discharge their cargoes on board barges, of great capacity, which are towed down the river to New York, while the canal craft receive another cargo and return northward or westward. It is this business

of transhipment and exchange which forms the principal commerce of Troy, and occasions its rapid growth. It is connected with Boston and New York, as well as Burlington, Rutland, Montreal, and all western cities, by railway, as will be observed by the accompanying railway

map.

Albany is the oldest and most important of all the river cities. was first visited by Hendrick Hudson in 1609, and was settled a few years later, under the appellation of the manor of "Renssellaers-wyck," by a colony of Dutch, under the manorial superintendence of Jeremais Van Renssellaer. It has steadily increased in population, wealth, and enterprise since the date of its settlement, but has throughout adhered to many of its old Dutch customs and names. In 1754 it had attained a population of 1,500 to 2,000; in 1800, 5,349—since which time the number of inhabitants has been doubled, on the average, once in fifteen years, giving it, in 1840, a population of 33,721, and in 1850, 50,771. It is the capital of the great State of New York, and is now easily accessible from all parts of the commonwealth. The capitol is situated on the hill back from the river, commanding a fine view for many miles up and down the stream, as well as over the surrounding country. The elevated position of the city makes it a healthy and delightful residence. The country around is uneven, and in some parts moun-

tainous, but mostly susceptible of a high state of cultivation.

The commerce of Albany is almost as ancient as its settlement, though it was first made a port of entry in 1833. No reliable records of its river commerce were kept previous to that date. As early as 1770, Albany sloops visited the West Indies in large numbers, and in 1785 the "Experiment," a sloop of 80 tons, was fitted out here for China, being the second adventure from this country to Canton. created great interest in the China seas, returned in safety, and made several subsequent trips. The application of steam as a propelling power has nearly revolutionized the commerce of the ports on the Hudson; and the ancient foreign trade of Lansingburgh, Troy, and Albany is now extinct. In 1791, no less than forty-two sail were seen to arrive at or pass Albany, on their way to places above, in a single day. After Albany was erected into a port of entry, Congress made an appropriation for the removal of the obstructions to navigation, about six miles below the city, known as the Overslaugh. Although much was done to clear the channel and prevent future accumulations, yet the passage is still difficult at low water, and requires further and more efficient improvements. No detailed statements of the river commerce of Albany are at hand; but much may be learned from the excellent reports of the auditor of the canal department with regard to the quantity and value of articles arriving at and going from tide-This will give nearly all the commerce of the river at Albany and points above.

The number of vessels arriving and departing from Albany, consisting of schooners, sloops, brigs, steamers, propellers, and scows, was, in 1848, 788, and in 1849, 785. The tonnage entered and cleared

at this place, of the same class of vessels, for a series of years, was as follows:

	Tons.
In 1838	36,721
1839	
1840	
1841	
1842	
1843	
1844	
1845	
1846	•
1847	,
1848	,
1849	•

Much of this tonnage traded to Boston, New York, and Philadelphia. The following table shows something of the value of the commerce of all the tide-water ports for a series of years, as given in the canal returns:

Years.	Property goin	g from tide-water.	Arriving a	at tide-water.
10025	Tons.	Value.	Tons.	Value.
1837	122,130	\$25,784,147	611,781	\$21,822,354
1838	142,802	33,062,858	640,481	23,038,510
1839	142,035	40,094,302	602,128	20,163,199
1840	129,580	36,398,039	669,012	23,213,573
1841	162,715	56,798,447	774,334	27,225,322
1842	123,294	32,314,998	666,626	22,751,013
1843	143,595	42,258,488	836,861	28,453,408
1844	176,737	53,142,403	1,019,094	34,183,167
1845	195,000	55,453,998	1,204,943	45,452,321
1846	213,795	64,628,474	1,362,319	51,105,256
1847	288,267	77,878,766	1,744,283	73,092,414
1848	329,557	77,477,781	1,447,905	50,883,907
1849	315,550	78,481,941	1,579,946	52,375,521
1850	418,370	74,826,999	2,033,863	55,474,637
1851	467,961	80,739,899	1,977,151	53,927,508
1852	531,527	118,896,444	2,234,822	66,893,102

The following table exhibits the proportion of each class of property coming to tide-water. That going west was chiefly merchandise:

Years.	The forest.	Agriculture.	Manufactures.	Merchandise.	Other articles.
400	Tons.	Tons.	Tons.	Tons.	Tons.
1835	540,202 473,668	170,945	8,848	2,085	31,102
1836	,	173,000	12,906	1,176	35,597
1837	385,017	151,499	10,124	354	64,777
1838	400,877	182,142	8,487	298	48,677
1839	377,720	163,785	8,565	499	51,559
1840	321,709	302,356	8,665	104	36,178
1841	449,095	270,240	17,891	155	36,953
1842	321,480	293,177	16,015	185	35,769
1843	416,173	346,140	29,493	201	44,854
1844	545,202	378,714	32,334	245	62,599
1845	607,930	447,627	49,812	253	99,321
1846	603,010	628,454	46,076	1,796	82,982
1847	666,113	897,717	51,632	4,831	124,090
1848	603,272	685,896	44,867	6,343	107,527
1849	665,547	769,600	44,288	5,873	94,638
1850	947,768	743,232	39,669	7,105	113,273
1851	913,267	891,418	52,302	4,580	115,581
		989,268	47,512	10,605	122,760

The following table shows the character, quantity, and value of the property coming to tide-water on the State canals during the year 1851:

Articles.	Quantity.	Tons.	Value.
The Forest.			
Fur and peltry pounds. Boards and scantling feet. Shingles M. Timber cubic feet. Staves pounds. Wood cords. Ashes, pot and pearl barrels.	484,000 427,038,600 47,900 4,237,750 155,304,000 8,726 29,084	242 711,731 7,185 84,755 77,652 24,432 7,271	\$605,200 7,213,226 203,971 505,251 737,686 53,591 841,731
Total of the forest		913,268	10,160,656
Pork barrels Beef .do Bacon pounds	76,344	7,203 12,215 5,452	663,898 468,054 980,956

S. Doc. 112.

		1	
Articles.	Quantity.	Tons.	Value.
Cheese pounds.	25,602,000	12,801	\$1,663,606
Butterdo	<i>4</i> 9,568,000 €	4,784	1,338,997
Larddo	10,814,000	5,407	973,324
Lard oilgallons.	240,800	1,204	168,537
Woolpounds.	10,518,000	5,259	4,101,415
Hidesdo	572,000	286	68,434
Tallowdo	244,000	122	16,976
Flourbarrels.	3,358,463	362,714	13,436,542
Wheatbushels.	3,163,666	94,910	3,051,110
Ryedo	288,679	8,083	186,986
Corndo	7,915,464	221,633	4,427,175
Corn meal barrels .	7,065	763	20,172
Barleybushels.	1,809,417	43,426	1,429,332
Oatsdo	3,594,313	57,509	1,348,019
Bran and shipstuffspounds.	44,036,000	22,018	352,285
Peas and beansbushels.	127,500	3,825	141,698
Potatoesdo	599,950	17,949	341,531
Dried fruitpounds.	1,424,000	712	114,108
Cottondo	220,000	110	23,994
Unmanufact'd tobacco do	3,702,000	1,851	813,712
Hempdo	1,160,000	580	75,469
Clover and grass seeddo	534,000	267	39,876
Flaxseeddo	122,000	61	2,426
Hopsdo	552,000	276	146,287
Total agriculture		891,420	36,394,913
Manufactures.			
Domestic spiritsgallons.	2,787,600	13,938	627,406
Beerbarrels.	56	9	315
Oil meal and cakepounds.	6,810,000	$3,\!405$	85,150
Starchdo	2,560,000	1,280	135,732
Leatherdo	8,204,000	4,102	1,230,384
Furnituredo	1,046,000	523	104,385
Agricultural implements.do	320,000	160	15,842
Bar and pig leaddo	36,000	8	820
Pig irondo	5,916,000	2,958	59,158
Castingsdo	2,448,000	1,224	73,438
Machines & parts thereof.do	148,000	74	14,931
Bloom and bar irondo	33,350,000	16,675	666,993
Iron waredo	4,000	2	111

Articles.	Quantity.	Tons.	Value.
Domestic woollenspounds.	824,000	412	\$725,419
Domestic cottonsdo	2,248,000	1,124	539,312
Pomestic saltdo	12,816,000	6,408	56,387
Total manufactures		52,302	4,335,783
Merchandise	9,160,000	4,580	329,423
Other articles.			
Live cattle, hogs & sheep.lbs	868,000	434	26,100
Stone, lime and claydo	86,286,000	43,143	122,000
Gypsumdo	3,242,000	1,621	6,475
Eggsdo	3,676,000	1,838	220,652
Mineral coaldo	26,110,000	13,055	58,753
Fishdo	170,000	85	7,101
Copper oredo	418,000	209	62,667
Sundriesdo	110,392,000	55,1 96	2,202,985
Total other articles		115,581	2,706,733
Grand total		1,977,151	53,927,508

Besides this array of tonnage arriving at tide-water on the canals, there was, in 1851, of the same classes of property, to the amount of \$8,332,441 landed at Troy and Albany by railway from the west. There also went west by railway from Albany and Troy 29,112 tons of merchandise, furniture, and other property.

From the foregoing statements it may be seen that all the property from the Canadas via Lake Champlain, and all that from the western States via the canals or central line of railways, destined for New York or Boston, must pass through these tide-water ports, which it rarely does without being either transhipped or handled sufficiently to pay a tribute to the commerce of some one of them.

Albany and Troy are advantageously connected with Boston, New York, and the lakes Ontario and Erie by excellent water and railway routes, and, from present appearances, must continue to increase in commercial wealth and importance so long as the Atlantic cities on the one hand and the west on the other maintain and multiply their present traffic with each other.

MISSISSIPPI RIVER ROUTE.

Statement showing the value of cotton, hemp, tobacco, sugar, molasses, pork, bacon, and lard, at New Orleans, during a series of years, ending September 1.

Lard.	\$3,925,845 3,381,404 5,024,340 4,970,113 4,611,050 3,804,515 2,729,581 1,767,211
Bacon.	\$6,348,622 5,879,470 2,992,787 2,989,385 2,935,349 1,671,855 906,970
Pork.	\$5,250,541 4,134,632 6,632,554 6,621,911 3,934,047 4,511,162 3,666,054 2,651,172
Molasses.	\$4,026,000 2,625,000 2,400,000 1,920,000 1,440,000 1,710,000 1,260,000
Sugar.	\$11,827,350 12,678,180 12,356,150 8,800,000 9,600,000 10,265,750 9,000,000
Tobacco.	\$7,291,765 7,736,600 6,166,400 3,938,290 3,430,544 3,604,468 4,144,562 3,697,390
Hemp.	\$257,235 452,088 695,840 436,832 410,096 903,570 309,800 462,740
Cotton.	\$48,592,222 48,756,764 41,886,150 30,844,314 35,200,345 32,589,436 33,716,256 23,501,712
Years.	1851 1850 1849 1845 1845 1844 1843

Statement of the comparative value of property sent from the seaboard to the interior via the St. Lawrence, the Hudson, and the Mississippi.

Years.	St. Lawrence.	Hudson.	Mississippi.
1851	\$10,956,793	\$80,739,899	\$38,874,782
1850		. 74,826,999	33,667,325
1849			30,152,091
1848			28,141,317
1847			27,667,512
1846			21,668,823
1845		55,453,998	21,035,030
1844		53,142,403	23,480,217
1843		42,258,488	24,510,045
1842		32,314,798	24,093,570
1841		56,798,447	30,768,966

There should be added to the foregoing table, in order to exhibit fairly the tonnage of the New York or Erie route, the amount of freight carried to and taken from tide-water by the several lines of railway. The following is the estimated business, in tons, taken from official sources, of the Northern or Ogdensburg, the New York Central, and the New York and Erie lines. These different lines landed at tidewater, in the aggregate, 228,107 tons, valued at \$11,405,350; and took from thence to the interior 89,112 tons, valued at \$44,556,000.

Comparative statement showing an estimate of the tons of some of the principal articles landed at tide-water, and going from thence to the interior, via the different routes, in 1851.

	St. La	wrence.	H	idson.	New Orleans.
Articles.	Tons up.	Tons down.	Tons up.	Tons down.	Tons down.
The Forest.					
Lumber	10,220	62,351		711,731	
Timber	1,725	9,895		84,755	
Shingles	76	217		7,185	2
Staves	90	9,177		77,652	58,552
Furs		l		242	500
Ashes	7	5,576		7,271	

S. Doc. 112.

	St. Lav	wrence.	Hu	idson.	New Orleans.
Articles.	Tons up.	Tons down.	Tons up.	Tons down.	Tons down.
Agriculture.				,	
Flour	2,177	70,966		362,714	100,138
Wheat	821	16,867		94,910	5,193
Corn	171	3,052		221,633	109,989
Oats	1,501	1,746		57,509	6,949
Rye	38	284		8,083	
Barley	43	69		43,426	
Potatoes	110	403		17,949	22,809
Cotton				110	321,566
Hemp	2	74		580	2,858
Wool		15		5,259	
Eġġs				1,838	
Oil cake				3,405	*******
Tobacco	52	135		1,851	54,187
Beef		89		12,215	9,077
Pork	1,399	3,454		7,203	47,205
Bacon	1,635	164		5,452	37,291
Butter	2	1,122		4,784	2,417
		37		12,801	1,811
Lard		150		5,407	22,766
Tallow	30	413		122	196
Manufactures.					
Whiskey	230	649		13,938	29,270
Lard oil	25	6		$1,\!204$	2,117
				4,102	
Lead				8	9,592
Railroad iron	27,994		[₋ -		
Pig iron	14,179	66		2,958	62
Blooms	9,794			16,675	
Castings	1,563	77		1,224	
Nails and spikes	1,745				
Sugar	3,596				118,273
Molasses	398	1	i i		91,500
Salt	7,297	134		6,408	
Coal	9,054	86	1 40"	13,055	85,000
Furniture	15.005	000	1,465		
Merchandise	15,295	923	349,230	4,580	150.050
Sundries	12,510	141,412	117,266	74,722	153,350
Total tons	120,779	329,621	467,961	1,977,151	1,292 670

These figures show correctly the tonnage arriving at and departing from tide-water on the Hudson by canal, and that passing up and down the St. Lawrence canals, during the past year. Upon the Mississippi routes the estimates are based upon the best data obtainable. There are no means at hand of estimating with any probable degree of accuracy the "up" tonnage of the Mississippi. With these additions, the following stable would show the comparative movement upon the different routes:

Comparative statement showing tonnage and value of merchandise sent from and received at seaboard by way of the New York canals and St. Lawrence and Mississippi rivers for 1851.

4	Tons.	Value.
Downward.		
New York canals	1,977,151	\$53,727,508
New York railroads	228,107	11,405,350
St. Lawrence	329,621	9,153,589
Mississippi	1,292,670	108,051,708
Upward.		
New York canals	467,961	80,739,899
New York railroads.	89,112	44,556,000
St. Lawrence	120,779	10,956,793
Mississippi		38,874,782

The movement on the Pennsylvania line is not entered in the comparative statement, because only the through-tonnage, which is supposed to be represented by the amount transported over the *Portage* railroad, is shown. The amount of this tonnage going east upon this road for 1851 was 13,696 tons, valued at \$125,000; total tonnage going west, 10,961 tons, valued at \$2,779,731. The tonnage of the public works of Pennsylvania having an eastern direction is derived chiefly from the produce of the State, which is of great magnitude and importance. For this trade there are two outlets—one by the Columbia railroad, and one by the Tide-water canal, the returns of the tonnage of which will be found annexed.

Tabular statement showing the value of property received at seaboard by the foregoing routes.

Years.	St. Lawrence.	Hudson.	Mississippi.
1851	\$9,153,580	\$53,927,508	\$108,051,708
1850		55,474,637	106,924,088
1849		52,375,521	96,897,873
1848		50,883,907	81,989,692
1847		73,092,414	79,779,151
1846		51,105,256	90,033,256
1845		45,452,321	77,193,464
1844		34,183,167	57,196,122
1843		28,453,408	60,094,716
1842		22,751,013	53,782,054
1841		27,225,322	45,716,045
		484,924,474	857,658,164

The movements for the past year upon the St. Lawrence and Portage routes only are given, for the want of convenient data. The downward tonnage upon the St. Lawrence canals for 1850 was 212,135, against 329,621 for 1851, upon which the above estimate is made.

The tonnage is estimated to correspond in value with the estimated

value of similar articles on the Erie canal.

Statement of property sent westward from Philadelphia by railroad in 1851.

Articles.	Amount.
Agricultural productions not specifiedpounds	1,422,600
Barleybarrels	7,248
Cottonpounds	1,631,600
Hempdo	347,400
Hopsdo	52,000
Potatoeshushels	1,788
Seedsdo	
Tobacco, not manufacturedpounds	213,500
Wheatbushels	2,637
Hides, drypounds	1,178,500
Do. greendo	735,000
Leatherdo	
Wooldo	196,600
Boards, plank, &cfeet	546,000
Ale, beer, and porter barrels	

Bonnets, boots, &c pounds Chinaware and queenswaredo Coffeedo Drugs and medicinesdo Dry goodsdo Dyestuffsdo	5,029,500 5,111,900 6,851,700 2,149,200 36,514,700
Chinaware and queenswaredodo Coffeedo Drugs and medicinesdo Dry goodsdo Dyestuffsdo	5,111,900 6,851,700 2,149,200 36,514,700
Coffee do do Drugs and medicines do Dry goods do Dyestuffs do do	6,851,700 $2,149,200$ $36,514,700$
Dry goodsdododododo	2,149,200 $36,514,700$
Dry goodsdododododo	
Dyestuffsdodo	
2,7	63,500
Glasswaredodo	166,100
Groceries do do	33,735,800
Hardware and cutlerydo	10,071,500
Bagging do do	193,900
Liquors, foreigngallons	38,187
Paintspounds	465,300
Saltbushels	44,558
Tobacco, manufacturedpounds	151,400
Anvilsdodo	232,500
Coal, mineral tons	5,162
Copperpounds	76,800
Gypsum	1,244
Iron, pigspounds	836,400
Iron castings	2,480,300
Iron, bar and sheet	2,801,300
Nails and spikesdo	561,200
Machinerydodo	1,089,400
Spanish whitingdo	460,400
Spanish whiting do do Steel do do do do do do do do do do do do do	760,600
Tindo	1,247,500
Bacondo	109,300
Cheesedodo	257,700
Fishbarrels	33,210
Pot, pearl, and soda ashpounds	1,726,500
Marble do do do do do do do do do do do do do	2,656,000
Agricultural implementsdo	7,400
Furnituredo	777,200
Oil (except lard oil)gallons	350,377
Oil (except lard oil) gallons pounds pounds	1,981,600
Rags	1,530,900 $10,200$
Straw paperdo	2,526,100
Tar and rosindo	3,359,800
Sundries do	73,500
Live stockdo	56,755
Number of cars cleared.	50,750
Passengers miles travelled by emigrants	865,456
COIDC West	\$392,764 64
Amount of toll received	woon, or or

Statement of property received at Philadelphia by railroad from the West, in 1851.

Articles.	Amount.
Agricultural productions not specifiedpounds	4,142,000
Barleybushels	21,048
Ryedodo	31,193
Corndodo.	464,595
Cotton	581,300
Hempdo	829,600
Oats bushels bushels	451,768
Potatoesdodo	38,587
Seedsdo	26,039
Tobacco, not manufacturedpounds	6,324,000
Wheatbushels	121,656
Deer, buffalo, and moose skinspounds	463,300
Feathers do do	432,700
Furs and peltrydo	179,600
Leather do do	3,363,900
Wool do	3,344,200
Bark, grounddodo	3,064,600
Boards, plank, &cfeet	4,551,100
Drugs and medicinespounds	48,400
Dry goods do	1,465,200
Dry goodsdodo	377,800
Earthenware. do	215,800
Glasswaredo	425,500
Hardware and cutlerydo	589,800
Baggingdo	46,300
Tobacco, manufactureddo	1,500
Whiskeygallons	632,362
Coal, mineraltons	3,104
Copperpounds	156,100
Iron, pigsdo	2,479,900
Iron castingsdo	156,100
Iron blooms and anchoniesdo	1,335,900
Iron, bar and sheetdo	9,071,700
Nails and spikesdo	1,759,100
Machinery	7 1,600
Steel do.	
Bacondodo	9,400 $11,693,500$
Beef and pork barrels	
	4,543 $1,917,700$
Butterpounds	
Cheese do do do do do do do do do do do do do	8,000
Corn-meal barrels barrels	6,220
Flourdo	315,257
Lard and lard oilpounds	3,817,200
Soda ashesdo	131,000
Tallowdol	292,200

Articles.		Amount.
Furniture	pounds	638,000
Oil (except lard oil)	gallons	1,862
Paper	pounds	891,100
Rags		811,800
Straw paper	do	986,700
Live stock.	do	7,594,700
Passengers, miles travelled		4,264,653

Comparative statement of upward tolls on the Susquehanna and Tide-water canals.

Articles.	1849.	1850.	1851.
le barrels			
shes, soda and other	292, 687	1,189,017	15, 23
oats clearednumber	4,676	4,613	5,21
acon, pork, beefpounds	662,261	1, 117, 541	695, 07
one dust, guanododo	564, 146	765,265	894, 42
ricks	1, 245, 595	1, 478, 669	936, 54
urr-blocks, cement, mill-stonesdo	1,927,245	6,738,287	187, 64
ay, German and fire	1, 328, 767	1, 437, 938	966, 21
ottonpounds	290, 125	92, 396	132, 93
heesedo	230, 120	52,550	37, 29
offee			2,122,06
shbarrels	23, 270		22, 36
		23,192	
rindstonespounds		170, 945	219, 50
ass			182,23
idespounds			1,368,29
ondo	12, 050, 837	4,658,855	1,283,13
on oredo	264, 420	**********	
on castingsdodo	1,009,498	1,072,053	1,854,26
eatherdo	· • • • • • · · · · · · ·		22, 32
arbledo	562, 045	618, 487	656, 07
erchandise not specifieddo	29,701,790	30, 835, 069	31,944,14
ailakegs	4,779	5,865	5,41
assengersnumber	109	89	13
astertons	10,694	9, 286	8, 10
ltbushels	173,050	138, 214	129, 27
apstonepounds	806, 155	1, 448, 255	1,310,40
nddodo	569, 290	421, 061	563,48
indries do do	1,016,229	1, 133, 393	1,098,22
If Main mitch		3, 535	3, 65
r, rosin, pitchbarrels heatbushels	19,545	461	8, 27

Comparative statement of downward tolls on the Susquehanna and Tide-water canals.

Bacon and beef. do. 259,692 11,711 2,312,08 Balk cords 3,304 2,654 3,92 Boats No 6,173 6,169 6,68 Bricks, fire and common. do. 1,128,193 307,950 485,69 Butter, cheese, lard, and tallow. pounds 107,638 109,611 129,27 Coal, anthracite tons 107,638 109,611 129,27 Coal, bituminous. do 20,640 17,679 20,67 Charcoal. pounds 1,005,000 30,000 30,000 Corn and other grain bushels 508,897 109,691 591,10 Flour barrels 86,458 108,227 142,36 Ice pounds 2,095 2,188 18,227 Ice pounds 2,095 2,188 1,98 Iron, bar and railroad, and nails tons 2,188 357 1,13 Iron, pig and cast do 25,409 17,839 17,86	Articles.	1849.	1850.	1851.
Bacon and beef.	Agricultural products not specifiedpounds	620,003	332,242	1, 307, 017
Boats No 6,173 6,169 6,88 Bricks, fire and common do 1,128,193 307,950 485,68 Butter, cheese, lard, and tallow pounds 382,803 388,512 783,76 Coal, anthracite tons 107,638 109,611 129,27 Coal, bituminous do 20,640 17,679 20,67 Charcoal pounds 1,005,000 30,000 Cora and other grain bushels 508,897 109,691 591,10 Flour barrels 86,458 108,227 142,36 Ice pounds 2,095 2,188 1,98 Iron, bloom, tons, 2,464 pounds 2,095 2,188 1,98 Iron ore tons 2,188 357 1,13 Iron ore tons 2,189 17,88 17,88 Limes or pounds 1,260,689 868,325 891,81 Limestone perches 9,258 9,300 5,54 Li	Bacon and beefdodo	2 59,632	11,711	2, 312, 093
Bricks, fire and common. do. 1,128,193 307,950 485,69 Butter, cheese, lard, and tallow. pounds 382,803 388,512 763,763 Coal, anthracite. tons. 107,638 109,611 129,27 Coal, bituminous. do. 20,640 17,679 20,670 Charcoal. pounds. 1,005,000 30,000 591,10 Corn and other grain. bushels. 508,897 109,691 591,10 Flour. barrels. 86,458 108,227 142,36 Ice. pounds. 2,095 2,188 1,98 Iron, bloom, tons, 2,464 pounds. 2,095 2,188 1,98 Iron, pig and cast. do. 25,409 17,839 17,86 Leather. pounds. 1,260,689 868,325 891,81 Lime. bushels. 183,970 290,167 349,28 Liquors, domestic. barrels. 24,050 18,265 17,31 Live stock pounds. 52,344,215	Bankcords	3,304	2,654	3,026
Butter, cheese, lard, and tallow. pounds. 382,803 388,512 783,75 Coal, anthracite. tons. 107,638 109,611 129,27 Coal, biuminous. .do. 20,640 17,679 20,67 Charcoal. pounds. 1,005,000 30,000 Corn and other grain bushels. 508,897 109,691 591,16 Flour. barrels. 86,458 108,227 142,36 Ice. pounds. 2,095 2,188 1,98 Iron, bar and railroad, and nails. tons. 3,212 6,334 4,12 Iron, bloom, tons, 2,464 pounds. 2,095 2,188 357 1,13 Iron, pig and cast. do. 25,409 17,839 17,86 Leather. pounds. 1,260,689 868,325 891,81 Limes. bushels. 183,970 290,167 349,28 Limestone. perches. 9,258 9,300 5,54 Liquors, domestic. barrels. 24,0		6, 173		6,861
Coal, anthracite .tons 107, 638 109, 611 129, 27 Coal, bituminous .do 20, 640 17, 679 20, 67 Charcoal. pounds 1,005, 600 30, 000 Corn and other grain bushels 508, 897 109, 691 591, 10 Flour .barrels 86, 458 108, 227 142, 36 Ice pounds 2, 95 2, 188 1, 98 Iron, bar and railroad, and nails .tons 3, 212 6, 334 4, 12 Iron, bloom, tons, 2,464 pounds 2, 095 2, 188 1, 98 Iron ore .tons 2, 188 357 1, 13 Iron, pig and cast .do 25, 409 17, 839 17, 66 Leather pounds 1, 260, 689 868, 325 891, 81 Lime bushels 183, 970 290, 167 349, 28 Liquors, domestic barrels 24, 050 18, 265 17, 31 Live stock pounds 54, 375 15, 200		1, 128, 193	307,950	485, 695
Coal, bituminous .do. 20,640 17,679 20,67 Charcoal. pounds 1,005,000 30,000		382,803	388, 512	783,789
Charcoal. pounds 1,005,000 30,000 Corn and other grain bushels 508,897 109,691 591,10 Flour barrels 86,458 108,227 142,36 Ice pounds 526,40 108,227 142,36 Iron, bloom, tons, 2,464 pounds 2,095 2,188 1,98 Iron, pig and cast do. 25,409 17,839 17,86 Leather pounds 1,260,689 868,325 891,81 Lime bushels 183,970 290,167 349,28 Limestone perches 9,258 9,300 5,54 Liquors, domestic barrels 24,050 18,265 17,31 Live stock pounds 54,375 15,200 19,00 Liquors, domestic barrels 24,050 18,265 17,31 Live stock pounds 54,375 15,200 19,00 Locust treenails do 57,1916 11,104,740 1,539,91	Coal, anthracitetons	107, 638	109,611	129, 276
Corn and other grain bushels 508, 897 109, 691 591, 16 Flour barrels 86, 458 108, 227 142, 36 Ice pounds 526, 44 Iron, bar and railroad, and nails tons 3, 212 6, 334 4, 12 Iron, bloom, tons, 2,464 pounds 2, 095 2, 188 1, 98 Iron ore tons 25, 409 17, 839 17, 86 Iron, pig and cast do 25, 409 17, 839 17, 86 Lieather pounds 1, 260, 689 868, 325 891, 81 Lime bushels 183, 970 290, 167 349, 28 Limestone perches 9, 258 9, 300 5, 54 Liquors, domestic barrels 24, 050 18, 265 17, 31 Live stock pounds 54, 375 15, 200 246, 180 280, 00 Locust treenails do 52, 344, 215 62, 666, 416 77, 182, 25 Lumber, sawed sup. feet 52, 344, 215	Coal, bituminousdo	20,640	17, 679	20, 673
Flour	Charcoal pounds	1,005,000	30,000	
Ice pounds 526, 40 Iron, bar and railroad, and nails 526, 40 Iron, bloom, tons, 2,464 pounds 2, 985 2, 188 1, 98 Iron ore 2, 188 357 1, 13 Iron, pig and cast 25, 409 17, 839 17, 86 Lieather pounds 1, 260, 689 868, 325 891, 81 183, 970 290, 167 349, 98 Lime bushels 183, 970 290, 167 349, 98 17, 86 183, 970 290, 167 349, 98 17, 86 183, 970 290, 167 349, 98 17, 86 18, 97 290, 167 349, 98 18, 30 290, 167 349, 98 17, 86 18, 265 17, 31 11, 260, 689 868, 325 891, 81 18, 98 18, 265 17, 31 18, 265 17, 31 18, 265 17, 31 18, 265 17, 31 18, 265 17, 31 18, 265 17, 31		508, 897		591, 105
Iron, bar and railroad, and nails		86, 458	108, 227	142, 362
Iron, bloom, tons, 2,464	Icepounds			526, 400
Iron ore.	Iron, bar and railroad, and nailstons			4, 128
Tron, pig and cast				1,984
Leather pounds 1,260,689 868,325 891,81 Lime bushels 183,970 290,167 349,28 Limestone perches 9,288 9,300 5,54 Liquors, domestic barrels 24,050 18,265 17,31 Live stock pounds 54,375 15,200 19,00 Locust treenails do. 270,478 286,416 280,00 Lumber, sawed sup. feet 52,344,215 62,664,16 77,182,25 Lumber, maple, cherry, and walnut do. 270,478 395,225 217,61 Merchandise and manufactures not specified 571,916 1,044,740 326,307 516,79 Passengers do. 1,377 2,009 81 Rags pounds 16,427 8259 14,00 Shingles No 9,049,585 8,850,636 8,775,61 Staves No 9049,585 8,850,636 8,775,61 Staves No 9,049,585 8,850,636 8,7				1, 135
Lime. bushels. 183,970 290,167 349,28 Limestone perches 9,258 9,300 5,54 Liquors, domestic. barrels 24,050 18,265 17,31 Live stock pounds 54,375 15,200 19,00 Locust treenails. do. 59,750 246,180 280,00 Lumber, sawed. sup. feet 52,344,215 62,666,416 77,182,25 Lumber, maple, cherry, and walnut. do. 270,478 395,225 217,61 Merchandise and manufactures not specified. 571,916 1,104,740 1,539,97 Poles, hoop. No. 320,700 326,307 516,79 Passengers. do. 1,377 2,009 81 Rags. pounds 212,479 278,633 318,15 Seeds, flax, grass, &c. bushels 16,427 8,259 14,00 Shingles. No. 99,049,585 8,850,636 8,775,61 Staves. No. 898,600 952,270 <t< td=""><td></td><td></td><td></td><td>17,860</td></t<>				17,860
Limestone. perches. 9, 258 9, 300 5,54 Liquors, domestic. barrels 24, 050 18, 265 17, 31 Live stock pounds 54, 375 15, 200 19, 06 Locust treenails. do. 59, 750 246, 180 280, 00 Lumber, sawed. sup. feet. 52, 344, 215 62, 686, 416 77, 182, 25 Lumber, maple, cherry, and walnut. do. 270, 478 395, 225 217, 61 Merchandise and manufactures not specified. 571, 916 1, 104, 740 1, 539, 97 Poles, hoop. No 320, 700 326, 307 516, 72 Rags. pounds. 212, 479 278, 633 318, 13 Seeds, flax, grass, &c. bushels. 16, 427 8, 259 14, 00 Shingles. No 90, 49, 585 8, 850, 636 8, 775, 61 Staves. No 898, 600 952, 270 755, 60 Sumac, shaved and ground bark pounds 472, 374 184, 322 305, 74 Timber.				
Liquors, domestic. barrels. 24,050 18,265 17,31 Live stock pounds 54,375 15,200 246,180 280,00 Locust treenails. do. 59,750 246,180 280,00 77,182,25 Lumber, sawed. sup. feet. 52,344,215 395,225 217,61 Lumber, maple, cherry, and walnut. do. 270,478 395,225 217,61 Merchandise and manufactures not specified. 571,916 1,104,740 1,539,97 Poles, hoop. No 320,700 326,307 516,72 Rags. pounds 212,479 278,633 318,13 Seeds, flax, grass, &c. bushels 16,427 8,259 14,00 Shingles. No 9,049,585 8,850,636 8,775,61 Staves. No 898,600 952,270 755,05 Sumac, shaved and ground bark pounds 472,374 184,322 305,77 Timber. cubic feet 89,417 24,076 24,07 Tobacco pounds 66,336 49,134 633,49 Wheat bushels 840,575 1,131,767 1,032,44 Wood cords 1,436 3,218 3,57				349,281
Live stock pounds 54, 375 15, 200 19,00 Locust treenails do. 59, 750 246, 180 280, 00 Lumber, sawed sup. feet 52, 344, 215 62, 686, 416 77, 182, 25 Lumber, maple, cherry, and walnut do. 270, 478 395, 225 217, 61 Merchandise and manufactures not specified 571, 916 1, 104, 740 1, 539, 97 Poles, hoop No 320, 700 326, 307 516, 78 Passengers do. 1, 377 2, 009 81 Rags pounds 212, 479 278, 633 318, 15 Seeds, flax, grass, &c bushels 16, 427 8, 259 14, 06 Shingles No 9,049, 585 8, 850, 636 8, 775, 61 Staves No 898, 600 952, 270 755, 65 Staves No 89, 417 24, 076 24, 07 Timber cubic feet 89, 417 24, 076 24, 07 Tobacco pounds 66, 336 49, 134 633, 34 Wheat bushels 840, 575 1, 137, 77 1, 032, 44 Wood cords 1, 436 3, 218 3, 57	Limestoneperches			5,548
Locust treenails. .do. 59,750 246,180 280,00 Lumber, sawed. .sup. feet 52,344,215 62,686,416 77,182,25 Lumber, maple, cherry, and walnut. .do. 270,478 395,225 217,61 Merchandise and manufactures not specified. .571,916 1,104,740 1,539,97 Poles, hoop. .No. 320,700 326,307 516,79 Passengers. .do. 1,377 2,009 81 Rags. .pounds 212,479 278,633 318,13 Seeds, flax, grass, &c. .bushels 16,427 8,259 14,00 Shingles. .No. 90,049,585 8,850,636 8,775,61 Staves. .No. 88,600 952,270 755,05 Sumac, shaved and ground bark .pounds 472,374 184,322 305,74 Timber. .cubic feet 89,417 24,076 24,07 Tobacco .pounds 840,575 1,131,767 1,032,4* Wheat .bushels 840,575	Liquors, domesticbarrels			
Lumber, sawed. sup. feet. 52, 344, 215 62, 686, 416 77, 182, 25 Lumber, maple, cherry, and walnut. do. 270, 478 395, 225 217, 61 Merchandise and manufactures not specified. 571, 916 1, 104, 740 1, 539, 97 Poles, hoop. No 320, 700 326, 307 516, 72 Rags. pounds 212, 479 278, 633 318, 13 Seeds, flax, grass, &c. bushels 16, 427 8, 259 14, 00 Shingles. No 9, 049, 585 8, 850, 636 8, 775, 61 Staves. No 898, 600 952, 270 755, 05 Sumac, shaved and ground bark pounds 472, 374 184, 322 305, 74 Timber. cubic feet 89, 417 24, 076 24, 07 Tobacco pounds 66, 356 49, 134 633, 36 Wheat bushels 840, 575 1, 131, 767 1, 032, 44 Wood cords 1, 436 3, 218 3, 57				
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Merchandise and manufactures not specified 571, 916 1,104,740 1,539,97 Poles, hoop. No 320,700 326,307 516,79 Passengers do. 1,377 2,009 818,15 Rags pounds 212,479 278,633 318,15 Seeds, flax, grass, &c bushels 16,427 8,259 14,00 Shingles No 9,049,585 8,850,636 8,775,61 Staves No 898,600 952,270 755,05 Sumac, shaved and ground bark pounds 472,374 184,322 305,74 Timber cubic feet 89,417 24,076 24,07 Tobacco pounds 66,356 49,134 633,36 Wheat bushels 840,575 1,131,767 1,032,4* Wood cords 1,436 3,218 3,55*				
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Passengers do. 1,377 2,009 81 Rags. pounds 212,479 278,633 318,13 Seeds, flax, grass, &c. bushels 16,427 8,259 14,06 Shingles No 9,049,585 8,850,636 8,775,61 Slate, roofing tons 646 945 60 Staves No 898,600 952,270 755,05 Sumac, shaved and ground bark pounds 472,374 184,322 305,74 Timber cubic feet 89,417 24,076 24,07 Tobacco pounds 66,356 49,134 633,36 Wheat bushels 840,575 1,131,767 1,032,4' Wood cords 1,436 3,218 3,57				
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Seeds, flax, grass, &c. bushels 16, 427 8, 259 14, 00 Shingles No 9,049,885 8, 850,636 8,775,61 Slate, roofing tons 646 945 Staves No 898,600 952,270 755,03 Sumac, shaved and ground bark pounds 472,374 184,322 305,74 Timber cubic feet 89,417 24,076 24,07 Tobacco pounds 66,356 49,134 633,36 Wheat bushels 840,575 1,131,767 1,032,4* Wood cords 1,436 3,218 3,55*				818
Shingles No 9,049,585 8,850,636 8,775,61 Slate, roofing tons 646 945 60 Staves No 898,600 952,270 755,03 Sumae, shaved and ground bark pounds 472,374 184,322 305,74 Timber cubic feet 89,417 24,076 24,07 Tobacco pounds 66,356 49,134 633,96 Wheat bushels 840,575 1,131,767 1,032,4* Wood cords 1,436 3,218 3,57				
Slate, roofing tons 646 945 660 Staves No 898, 600 952,270 755,05 Sumac, shaved and ground bark pounds 472,374 184,322 305,74 Timber cubic feet 89,417 24,076 24,07 Tobacco pounds 66,356 49,134 633,36 Wheat bushels 840,575 1,131,767 1,032,4* Wood cords 1,436 3,218 3,55*				
Staves. No. 898, 600 952,270 755,05 Sumac, shaved and ground bark. pounds. 472, 374 184,322 305,74 Timber. cubic feet. 89, 417 24,076 24,076 Tobacco. pounds. 66,356 49,134 633,36 Wheat. bushels. 840,575 1,131,767 1,032,4 Wood. cords. 1,436 3,218 3,55				
Sumac, shaved and ground barkpounds 472, 374 184,322 305, 74 Timber				
Timber cubic feet 89,417 24,076 24,07 Tobacco pounds 66,356 491,34 633,76 Wheat bushels 840,575 1,131,767 1,032,4 Wood cords 1,436 3,218 3,57				
Tobacco pounds 66,356 49,134 633,36 Wheat bushels 840,575 1,131,767 1,032,4 Wood cords 1,436 3,218 3,57				
Wheat bushels 840,575 1,131,767 1,032,4 Wood 1,436 3,218 3,57				
Wood				
Mac 1 191 699 1 65 494 1 97 81	Woolpounds	121,683	55, 484	27, 810

Value of produce received via canals on the Hudson, and at New Orleans via Mississippi, with United States exports and imports.

Years.	N. Y. canals, at tide-	At New Orleans.	Total.
1840	\$23,213,572 22,751,013 45,452,321	\$45,716,045 57,199,122	\$68,467,508 102,651,443
1848	55,480,941 53,927,508	70,779,151 96,897,873 106,924,083 108,051,708	130,663,058 152,378,814 160,851,591 174,944,810

INTERNAL TRADE OF THE UNITED STATES.

Under this title an estimate will be formed of the aggregate value of the lake and river commerce of 1851, and also an estimate of the value of the entire coasting, canal, and railway commerce of the United States for 1852. It will readily be perceived that all our commerce, which is not composed of transactions with foreign countries, properly comes under the head of "internal" or "domestic" commerce, as it is a trade or system of exchanges which exists among ourselves, and through which we are enabled to consume so large a share of our own productions.

It is very probable, especially in domestic trade, that the same merchandise or produce may enter into the computation of the aggregate for the whole country, several different times; but the fact that it is obliged to pay a commercial tribute at every point where it is handled, sold, or exchanged, in the shape of commissions, storage, cartage, cooperage, insurance, etc., renders it as appropriately a portion of the commerce of the place where its value is enhanced by these expenses, as though they occurred each time in foreign countries. Thus, a computation of the value of the entire commerce of the world would show the value of the imports and exports at each and every port of all countries; and yet such a computation would scarcely give any definite idea of the true "money value" or "quantity" of the property entering into one exchange; or, in other words, the proportion of the aggregate productions of the world which are exchanged or put into a market previous to consumption. In these estimates, therefore, the gross value of the domestic trade will be considered, and if the results arrived at be correct, they should nearly correspond with the aggregate business transacted by all the commercial houses in the country.

It has been shown that the domestic or coastwise trade of the lakes in 1851, was valued at \$314,473,458. As it is usual for prices of all agricultural produce to fluctuate, it is important to know the quantity as well as value composing the commerce, in order to decide upon the actual increase or decrease of production. The returns of the district of "Buffalo creek" show the tons of property composing the imports and exports at that port; and as the commerce of that district is a very fair representation of the character of the whole lake commerce, the tonnage, and value per ton, of the commerce of that port will be used as a basis in ascertaining the tons of the lake commerce. In this way, the average value of exports and imports is ascertained to be \$79 19 per ton, which into \$314,473,458, as above, gives 3,971,126 tons as the gross imports and exports at all the lake ports. The licensed American tonnage engaged in this trade was 215,975 measured tons, which into 3,971,126 tons, gives a fraction over eighteen gross tons per ton measurement, or eighteen tons, as it may be called for convenience, received and discharged per ton licensed. Applying this rule to the tonnage of the Mississippi and its tributaries, with an addition of twenty-five per cent. in consideration that the river tonnage is employed the whole year, instead of eight to nine months as on the lakes, will show an approximation to the gross tons of the river com-Mr. Corwin's report on the "Steam-marine of the Interior"

states the river tonnage at 135,560 measured tons, which multiplied by twenty-four, gives 3,253,440 tons. Adding one-fourth, 813,360 tons, to this amount for flat and keel-boat transportation, and the aggregate is 4,066,800 gross tons. The average value per ton of such property received at New Orleans during the year ending August 31, 1852, was \$83 58, which is assumed as a fair representative value of the whole trade. The gross value of the river commerce in 1851 was \$339,502,744; and the total of lake and river, according to these estimates, \$653,976,202.

None of the enrolled and licensed tonnage of the United States is engaged in foreign trade. It amounted in 1851 to 2,046,132 tons, 87,476 of which was engaged in the cod-fisheries, 50,539 tons in the mackerel fisheries, and 1,854,318 tons in the "coasting trade." The tonnage of the lakes and rivers is all included in the "coasting trade," as classified in the treasury returns. The treasury returns for 1852 show that the aggregate registered, enrolled, and licensed tonnage has been augmented since June 30, 1851, by about ten per cent. If this increase of ten per cent. be added to 1,854,318 tons, an aggregate is arrived at for 1852, of 2,039,749 tons of shipping employed in our domestic "carrying trade" or "exchanges," besides considerable registered tonnage which frequently enters the coasting trade between the Atlantic ports and those on the Gulf and the Pacific. It should be remarked here that a large proportion of this tonnage is sail, and, therefore, incapable of as frequent trips as steam. An investigation, however, shows that there is very little difference in the carrying capacity per ton measurement; as the fuel and machinery of steamers take up so much room, and add so largely to the weight, that but a small proportion of freight is required to put a steamer in the "passage trade" in "running trim." Hence, the annual "carrying trade" of a large steamer is generally less per ton measurement than that of a sailing vessel. As some of this coasting tonnage is employed only in summer months, but the major portion of it during the whole year, the capacity per ton measurement will be assumed in this estimate at 20 gross tons. This forms an aggregate of property received and discharged, in the transaction of our domestic trade, of 40,794,980 tons; which estimated at the mean value (\$81 36) per ton of the lake and river commerce of 1851, would constitute a gross sum of \$3,319,039,372.

The canal commerce of the United States is prosecuted upon about 3,000 miles of canal, which, excluding the coal trade, cleared and landed an average of about 6,000 tons per mile. The New York State canals averaged, in clearances and landings, about 9,000 tons per mile, but this is above the average for all the canals. At 6,000 tons per mile, 3,000 miles give 18,000,000 tons, valued at \$66 the ton, and form-

ing a gross sum of \$1,188,000,000.

There are also completed in this country, 13,315 miles of railway; but as 2,500 miles have been opened since January 1, 1852, only 10,815 miles can be considered as having participated in the trade of 1852. Several of the longest freight lines have received and delivered an aggregate amounting to an average of 2,000 tons per mile; but as many other lines do a comparatively light freighting business, the average as-

sumed will be 1,000 tons per mile, or a gross business of 10,815,000 tons, which, from the general character of railway freight, as being of a lighter and more costly character than water freight, may be valued at \$100 the ton: this would give an aggregate of gross railway com-

merce amounting to \$1,081,500,000.

This is undoubtedly a very unsatisfactory way of computing the value of our domestic trade, but, until better data can be arrived at, the fairness of this statement cannot be denied; and it is only put forth as the nearest approximation that can be made to accuracy, under our present system of internal trade returns, in the hope that the startling results here obtained may arouse those interested in this important trade to a full investigation of the subject by the collection of authentic data.

It has been customary heretofore, in making up these or similar estimates, to call the net money-value of property one-half the gross amount. Though this process may correctly denote the number of tons transported, it will by no means decide that the same property has not entered and re-entered, several times, into the general account, as it moved from point to point in search of a consumer. For convenience, however, the following tabular statements, showing the gross and net tons and value, are presented:

1851.	NET.		GROSS.	
	Tons.	Value.	Tons.	Value.
Lake commerce	1, 985, 563 2, 033, 400	\$157, 236, 729 169, 751, 372	3, 971, 126 4, 066, 800	\$314, 473, 458 339, 502, 744
Aggregate	4, 018, 963	326, 988, 101	8, 037, 926	653, 976, 202

	:	NET.	GROSS.		
Estimate of 1852.	Tons.	Value.	Tons.	Value.	
Coasting trade	20, 397, 490 9, 000, 000 5, 407, 500	\$1,659,519,686 594,000,000 540,750,000	40, 794, 980 18, 000, 000 10, 815, 000	\$3, 319, 039, 372 1, 188, 000, 000 1, 081, 500, 000	
Aggregate	34, 804, 990	2, 794, 269, 686	69, 609, 980	5, 588, 539, 372	

The returns already made from some of the lake ports indicate an increase over 1851 of over twenty-five per cent. in value of trade, and twenty per cent. increase of tonnage.

• This commerce and its necessities have occasioned the construction in the United States of nearly twenty thousand miles of magnetic telegraph, at a cost of little less than \$6,000,000.

Comment upon such facts as are here presented, will readily suggest

themselves to the minds of all intelligent men. It will be seen that our domestic commerce is of incalculable value to us, even as represented by the "coasting" trade; but when to this is added the value of our whale. cod, and mackerel fisheries, and our California trade, that is carried on in registered bottoms, its magnitude will be still more astonishing. The fact that our domestic exchanges amount, by sale and resale and by the additional value gained by the labor bestowed in transportation, sale, &c., annually to over five thousand million dollars, as the sum upon which one commission or profit is paid, and that in this trade is employed actively and profitably over two million tons of shipping, which cost not less than one hundred and twenty million dollars, three thousand miles of canal, thirteen thousand miles of railway, and twenty thousand miles of telegraph, costing about four hundred and fifty million dollars, is one calculated not only to astonish, but to excite admiration of the energy, industry, and enterprise which, in so short a period, have achieved this high position.

ERRATA.

Page 12, third paragraph, first line—for "beginning portion" read beginning.

Page 51, in table, "Excess of lake and river"—instead of "1,406" read 140.

Page 52, third line from the top-for "latter" read former.

Page 149. The value of lumber in this table should be \$1,066,972.

Page 176, fifth paragraph—for "Bad river" read Mad river.

Page 177, in the heading of export table—for "total exports" read principal exports.

Page 336, first paragraph, fourth line from top-for "longitude" read latitude.

Page 447, in the head of table—for "St. ——"read St. Ann's.

Page 700. The paragraph commencing "The following table" refers to the table on the preceding page.

Page 702. The fourth paragraph, commencing "The principle," &c., should be considered as stricken out.

Page 794, first paragraph incorrectly punctuated: for "deltas" read delta; flow—and leave out the word "flow" in preceding line.

Page 804, in the table of wrecks, the different per-centages of salvage expenses and aggregates are erroneously printed.

Page 822. In some of the copies the figures were erroneously placed, and the additions are therefore incorrect. The hands employed, 787,500; and acres in cotton in 1852, 6,300,000; and same corrections at page 829.

